



BULLETIN 1169B

PARTS

MODEL *28 Automatic*

SEND-RECEIVE SET (ASR)



TELETYPE®
CORPORATION

5555 TOUHY AVENUE, SKOKIE, ILLINOIS



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NOVEMBER, 1963

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Components of the Model 28 Automatic Send-Receive Set (ASR) Covered in this Bulletin

KEYBOARD	LAK1, 2, 3, 4, 5, 7, 9, 10, 11, 15, 17, 18, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 600, 601, 800, 801
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CABINET	LAAC200**, 201**, 202**, 205**, 206**, 207**, 209**, 210**, 213**, 214**, 219**, 222**, 223**, 225**, 226**, 229**, 230**, 231**, 233**, 234**, 235**, 236**, 237**, 241**
COVER	Keyboard with Perforator LBPC200**
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PAINT FINISH COLOR CODE CHART (For Parts and Assemblies Requiring a Paint Finish)				
Color	Finish Suffixes			
	Wrinkle	Smooth	Textured Vinyl	Smooth Vinyl
Black	AA (37)	BB		
Dark Brown	AD (38)			
Gray Green	AB (40)	BK	GA (45)	
Charcoal Gray	AL	BZ		HA
Dark Gray			GB	
Light Gray		EJ		HB
Beige Gray			GC	
Light Beige		EL		HC
Moss Green		EN		HD
Eye Rest Green		EA		
Turquoise		EV		
Aqua Blue		EK		
Brussels Light Blue		EC		
Med. Blue		ES		
Cherry Red		EF		
Pastel Yellow		EG		
White		EH		
Ivory		EM		
Beige		ET		
Rose Beige		ER		
Rose Pink		EU		
Dark Covert Gray				HE
Light Olive Gray		EW		HF (46)
Fawn				HC

Numbers in parenthesis () indicate BELL SYSTEM CODE.
Suffix to be applied following the Part Number.

TELETYPE TO BELL SYSTEM CODE REFERENCE CHART

Components of the MODEL 28 AUTOMATIC SEND-RECEIVE SET (ASR) covered in this Bulletin.			
CODES-DESCRIPTIONS (Teletype)		BELL SYSTEM CODES	
AUTOMATIC SEND-RECEIVE CABINET			
LAAC210**, LAAC235**		28F**	
LAAC209**, LAAC236**		28G**	
LAAC230** (Includes LFXD Transmitter Distributor Housing)		28LA**	
LAAC233**		28H**	
TRANSMITTER DISTRIBUTOR HOUSING			
150889** Modification Kit (LCXD Transmitter Distributor)		28B**	
150890** Modification Kit (LAXD Transmitter Distributor)		28C**	
150887** Modification Kit (LXD Transmitter Distributor)		28E**, 28H**	
150888** Modification Kit (LBXD Transmitter Distributor)		28F**, 28G**	
AUTOMATIC SEND-RECEIVE KEYBOARD WITH PERFORATOR			
LAK23RJ	Keyboard plus LPE2 Perforator (Perforator Transmitter Base)	28A	
LAK4ARP	Keyboard plus LPE1 Perforator (Perforator Transmitter Base)	28B	
LAK4ARP	Keyboard plus LPR33ARC Reperforator (Perforator Transmitter Base)	28D	
LAK4ARP	Keyboard plus LTPE3ARC Perforator (Perforator Transmitter Base)	28E	
LAK4ARP	Keyboard plus LRPE6 Reperforator (Perforator Transmitter Base)	28F	
LAK10ARC	Keyboard plus LPE3 Perforator (Perforator Transmitter Base)	28G	
LAK10ARC	Keyboard plus LTPE4ARC Perforator (Perforator Transmitter Base)	28G-1	
LAK20BRV	Keyboard plus LARP801 Reperforator (Perforator Transmitter Base)	28IA	
LAK27BRX	Keyboard plus LPE4 Perforator (Perforator Transmitter Base)	28F	
LAK39BRX	Keyboard plus LPE3 Perforator (Perforator Transmitter Base)	28J	
LAK40BRX	Keyboard plus LPE3 Perforator (Perforator Transmitter Base)	28J-1	
LAK20BRV	Keyboard plus LARP801 Reperforator (Perforator Transmitter Base)	28IA	
LAK4ARP	Keyboard plus LPR56BRM Reperforator (Perforator Transmitter Base)	28K	
TRANSMITTER DISTRIBUTOR BASE			
LCXB2 (used with LCXD1 Transmitter Distributor)		28B	
LCXB3 (used with LAXD3 Transmitter Distributor)		28C	
LCXB1 (used with LXD3 Transmitter Distributor)		28E	
LCXB7 (used with LBXD5 Transmitter Distributor)		28F	
LCXB8 (used with LXD4 Transmitter Distributor)		28H	
LCXB9 (used with LBXD7 Transmitter Distributor)		28G	
LCXB8 + LD8 (used with LXD15 Transmitter Distributor)		28H-1	
LCXB10 + LD6 (used with LXD3 Transmitter Distributor)		28E-1	
LCXB10 + LD5 (used with LXD3 Transmitter Distributor)		28E-2	
LCXB16 (used with LXDS Transmitter Distributor)		28H-2	
LCXB17 (used with LXD1B Transmitter Distributor)		28H-3	
ELECTRICAL SERVICE UNIT			
LESU11	28C	LESU56	28LA
LESU13	28F	LESU57	28LB
LESU15	28G	LESU66	28L
LESU27	28K	LESU82	28P
LESU32	28H	LESU83	28P-1
LESU33	28J	LESU86	28R
LESU35	28F-1	LESU87	28S
LESU36	28G-1		
MOTOR UNIT			
LMU3 (Synchronous Motor)		28A	
LMU12 (Synchronous Motor)		28C	
LMU14 (Governed Motor)		28D	
LMU29 (Governed Motor)		28E	
GEAR SETS			
164583	60 WPM. (Includes 161293 Gear Set For LAK Keyboard and 158029 Gear Set For LCXB Base)	28D-1	
164584	75 WPM. (Includes 161294 Gear Set For LAK Keyboard and 158028 Gear Set For LCXB Base)	28E-1	
164585	100 WPM. (Includes 161295 Gear Set For LAK Keyboard and 158027 Gear Set For LCXB Base)	28F-1	
COPYHOLDER			
164024**	28A**	178897**	28C**
PAPER SUPPLY BOX			
152349**			28A**

BELL SYSTEM ONLY

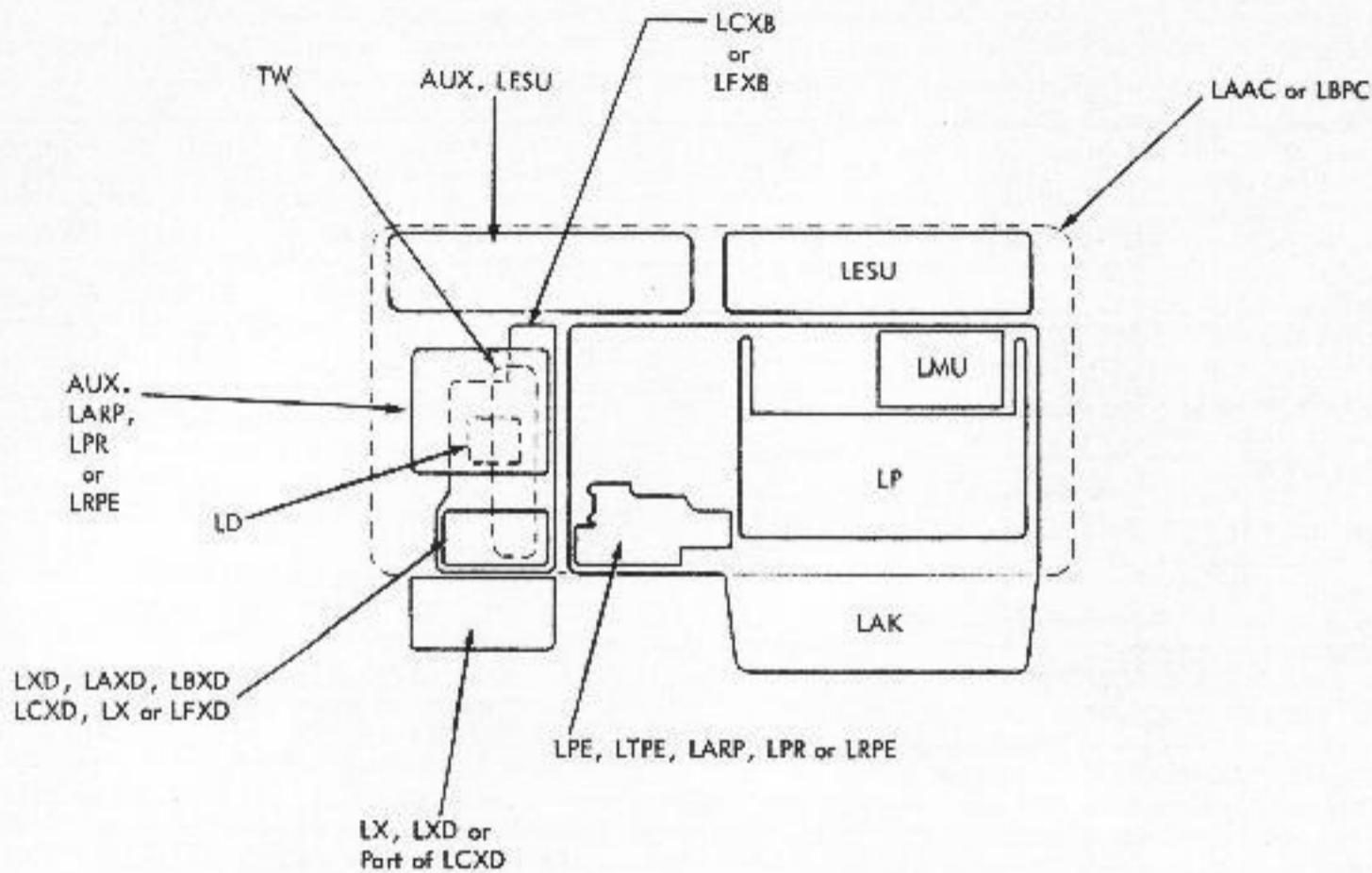
When ordering parts from this bulletin, prefix number with the letters TP.

The MODEL 28 AUTOMATIC SEND-RECEIVE SET (ASR)

is made up of a group of basic component units in various combinations. These include a keyboard, page printer, perforator (typing or non-typing), reperforator (typing or non-typing), transmitter distributor, transmitter distributor base, electrical service unit, console cabinet or cover and motor unit. The chart lists the bulletins covering the components of the ASR set: (P) parts order, (A & L) adjustments and lubrication and (D & T) description and principles of operation. (Ball System - refer to standardized A & L information).

BASIC UNITS	CODES-DESCRIPTIONS	BULLETINS		
		P	D & T	A & L
PAGE PRINTER	LP Typing Unit	1149B	216B	217B
KEYBOARD	• LAK Automatic Send-Receive Keyboard Base	1169B	249B	250B
PERFORATOR OR REPERFORATOR	• LPE Non-Typing Perforator	1169B	249B	250B
	• LTPE Typing Perforator	1169B	249B	250B
	LRPE Non-Typing Reperforator	1172B	255B	256B
	LPR Typing Reperforator	1167B	246B	247B
	LARP Multi-Magnet Reperforator	1166B	244B	245B
BASE	LFXB Transmitter Distributor Base	1182B		
	• LCXB Transmitter Distributor Base	1169B	249B	250B
COVER	• LBPC "Skin Tight" Automatic Send-Receive Cover	1159B		217B
TRANSMITTER	LX Transmitter	1161B		235B
TRANSMITTER DISTRIBUTOR	LXD Fixed Head, Single Contact Transmitter Distributor	1161B	258B	235B
	LAXD Pivoted Head, Multi-Contact Transmitter Distributor	1170B	251B	252B
	LBXD Fixed Head, Multi-Contact Transmitter Distributor	1165B	242B	243B
	LCXD Fixed Head and Pivoted Head, Multi-Contact Transmitter Distributor	1171B	253B	254B
	LFXD Tape Pull Back Transmitter Distributor	1182B		
DISTRIBUTOR	LD Multiple Wire Distributor	1159B	234B	234B
MOTOR	• LMU Motor Unit	1169B	249B	250B
ELECTRICAL SERVICE UNIT	• LESU Electrical Service Unit	1169B	249B	250B
CABINET	• LAAC Automatic Send-Receive Cabinet	1169B	249B	250B
KEYTOP WITH LEVER AND TYPEPALLETS	Murray, Gothic, Long Gothic Style Pallets	1164B		
(For gears used with the LARP, LPR or LRPE see appropriate bulletin)	• 1645B3 60 W.P.M. (Includes 161293 Gear Set for LAK Keyboard and 158029 Gear Set for LCXB Base)			
	• 1645B4 75 W.P.M. (Includes 161294 Gear Set for LAK Keyboard and 158028 Gear Set for LCXB Base)	1169B		250B
	• 1645B5 100 W.P.M. (Includes 161295 Gear Set for LAK Keyboard and 158027 Gear Set for LCXB Base)			

- Parts ordering information for these components is covered in this bulletin.

**NOTES:**

1. Installation instructions covering a typical ASR set - see specification 5873S.
2. Tape winder - see bulletin 1075B for parts ordering information and specification 5884S for adjustments and lubrication.
3. Maintenance tools - see bulletin 1124B for ordering information.
4. Paper winder - see bulletin 1129B for parts ordering information and specification 514BS for installation and adjustments.
5. Codomat - see bulletin 1181B for parts ordering information.

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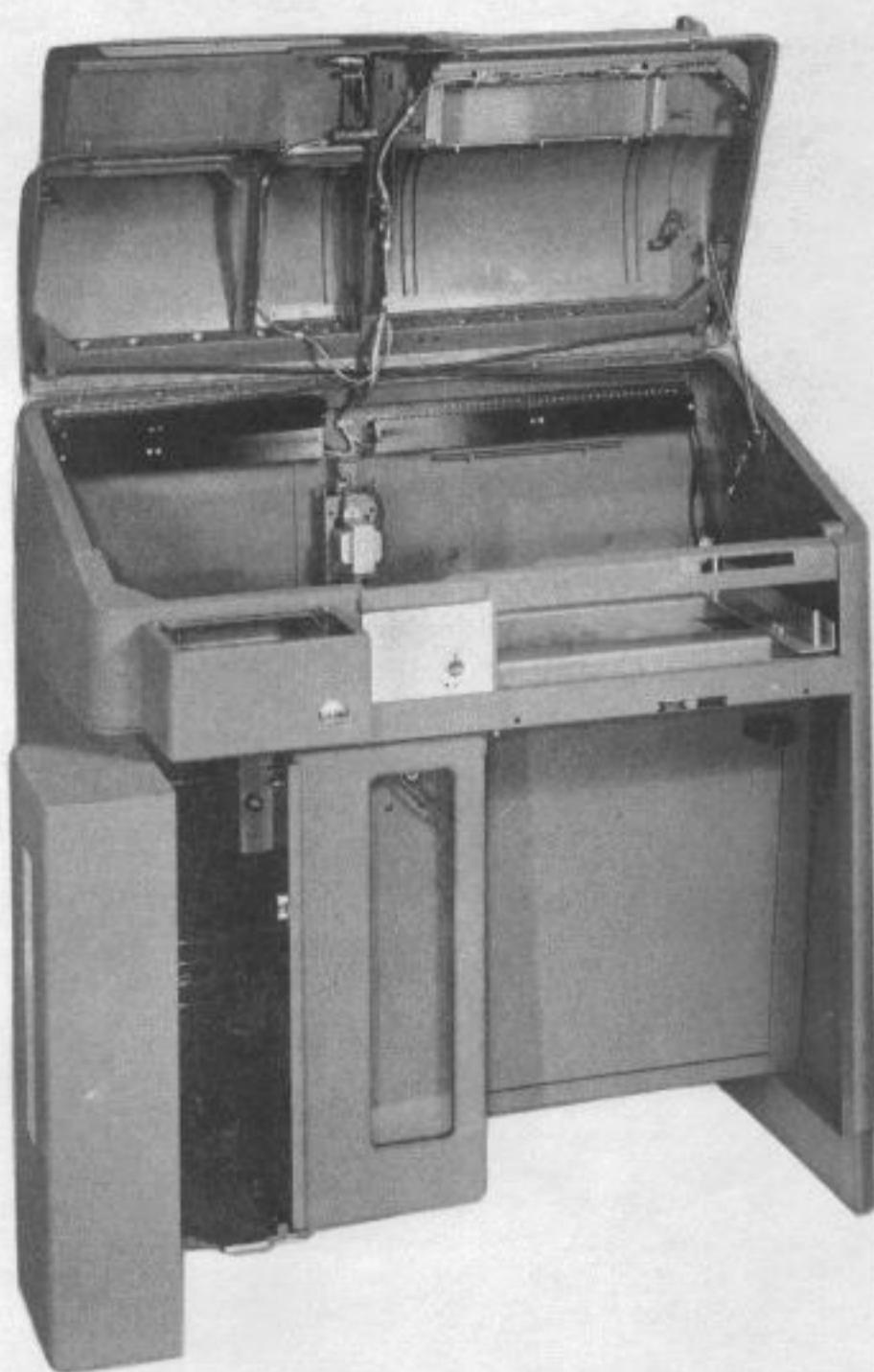
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7-4	145050 Message Processing Panel Assembly - Rear View	7-5		
7-5	145100 Tape Preparation Panel Assembly - Front View	7-6	7-20	177010 and 178601 Electronic Selector Magnet Drive Assemblies - 179560 Electronic Selector Magnet Drive Assembly and Open Line Detector 7-21
7-6	145100 Tape Preparation Panel Assembly - Rear View	7-7		
7-7	145225 Translator Panel Assembly - Front View	7-8	7-21	179610 and 179611 Modification Kits to Reduce Radio Frequency Noise on ASR Set 7-22
7-8	145225 Translator Panel Assembly - Rear View	7-9		
7-9	145250 Alarm Panel Assembly - Front View	7-10	7-22	179610 and 179611 Modification Kits to Reduce Radio Frequency Noise on ASR Set (Continued) 7-23
7-10	145250 Alarm Panel Assembly - Rear View	7-11		
7-11	145350 Intercept Panel Assembly - Front View	7-12	7-23	170573 Modification Kit - 48 Volt Rectifier Assembly 7-24
7-12	145350 Intercept Panel Assembly - Rear View	7-13		
7-13	145204 Power Supply D. C.	7-14	7-24	161829 Modification Kit for Mounting an Electrical Service Unit on Relay Rack Brackets 7-25
7-14	147081 Rectifier - 130V DC - 20V AC	7-15		
7-15	160387 and 160388 Modification Kits to Provide Relay Rack Brackets	7-16	7-25	164633 and 164640 Modification Kits to Permit LAXD3 and LCXD1 Transmitter Distributors to Operate LESU13 and LESU15 7-26
7-16	170271 and 194490 Modification Kits for Tape Programmed Relay Control	7-17	7-26	179139 Auxiliary Reperforator Line Relay Assembly 7-27
7-17	173706 Modification Kit for Power Factor Correction in Cabinet (LAAC)	7-18	7-27	160422 Modification Kit to Equip LAAC Cabinet With Rectifier 7-27
			7-28	Numerical Index - Section 7 7-28

SECTION 8 - KEYBOARD WITH PERFORATOR COVER (LBPC)

8-1	Skintight Cover for Keyboard With Perforator (LBPC200**)	8-2	8-3	Felt Pads and Base Plate (LBPC200**)
8-2	Electrical Components and Cabinet Accessories (LBPC200**)	8-3		Numerical Index - Section 8 8-5

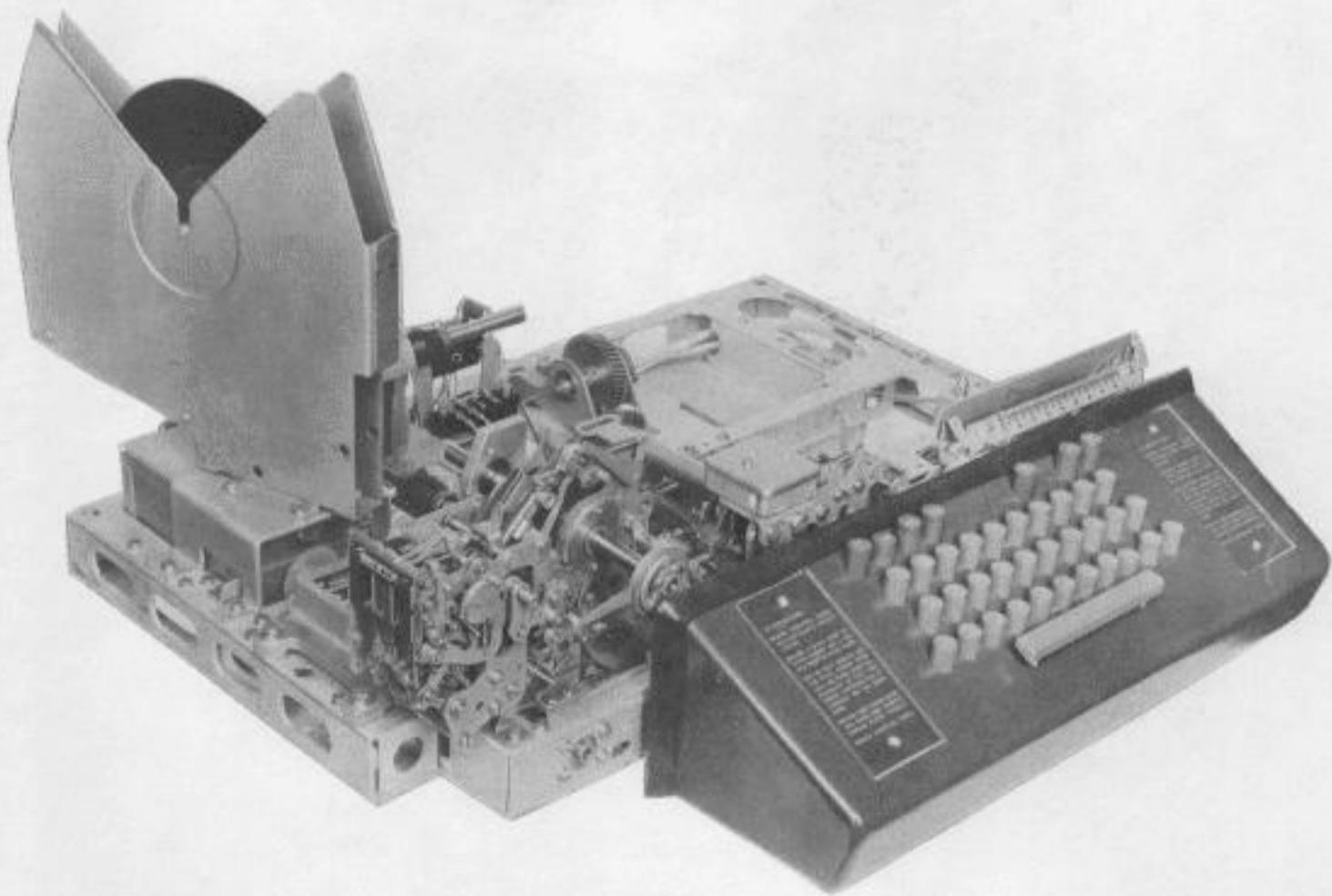
SECTION 9 - MASTER NUMERICAL INDEX



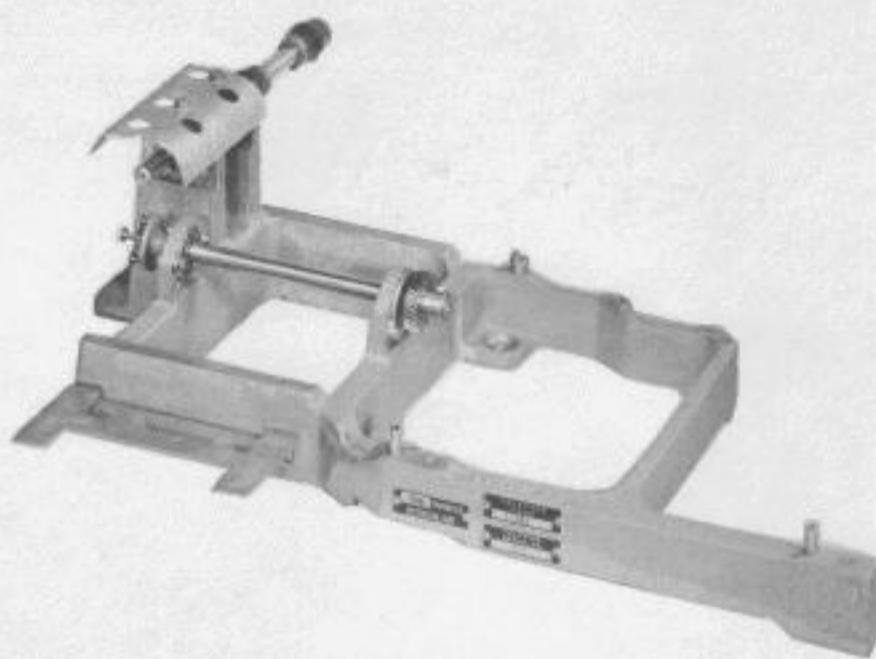
MODEL 28 AUTOMATIC SEND-RECEIVE CABINET (LAAC)



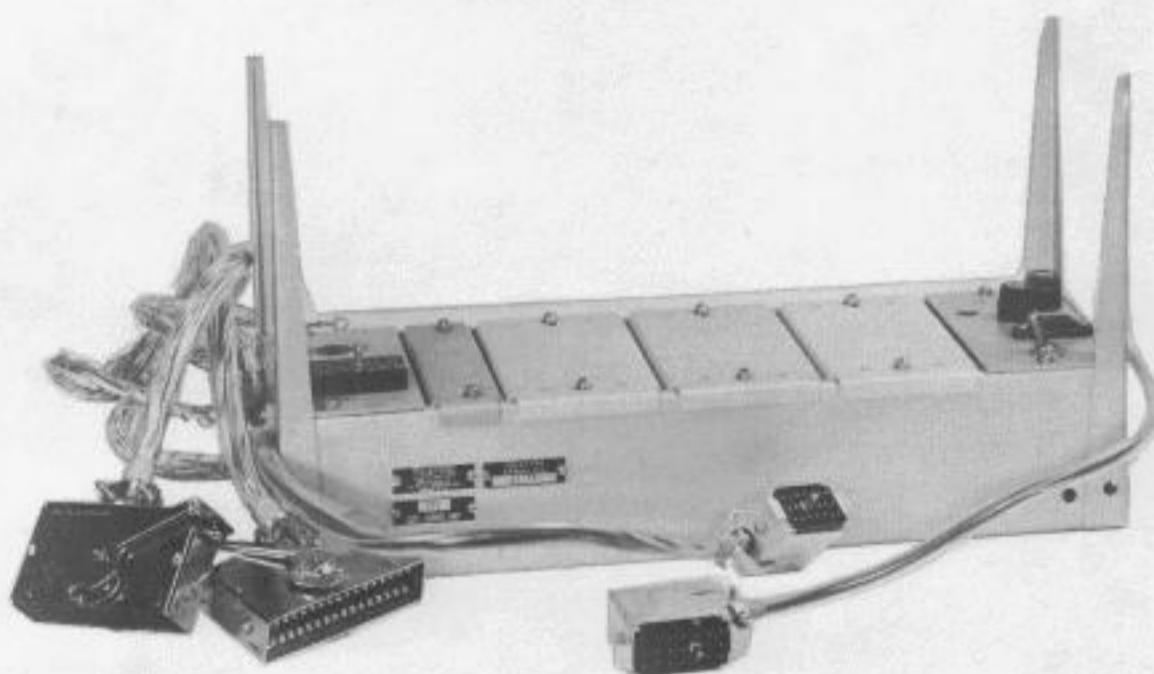
MODEL 28 AUTOMATIC SEND-RECEIVE KEYBOARD BASE (LAK)
WITH TYPING PERFORATOR (LTPE) AND COVER (LBPC)



MODEL 28 AUTOMATIC SEND-RECEIVE KEYBOARD BASE (LAK WITH PERFORATOR (LPE))



MODEL 28 TRANSMITTER DISTRIBUTOR BASE (LCXB)



MODEL 28 ELECTRICAL SERVICE UNIT (LESU)

SECTION 1

AUTOMATIC SEND-RECEIVE KEYBOARD (LAK)

1169B

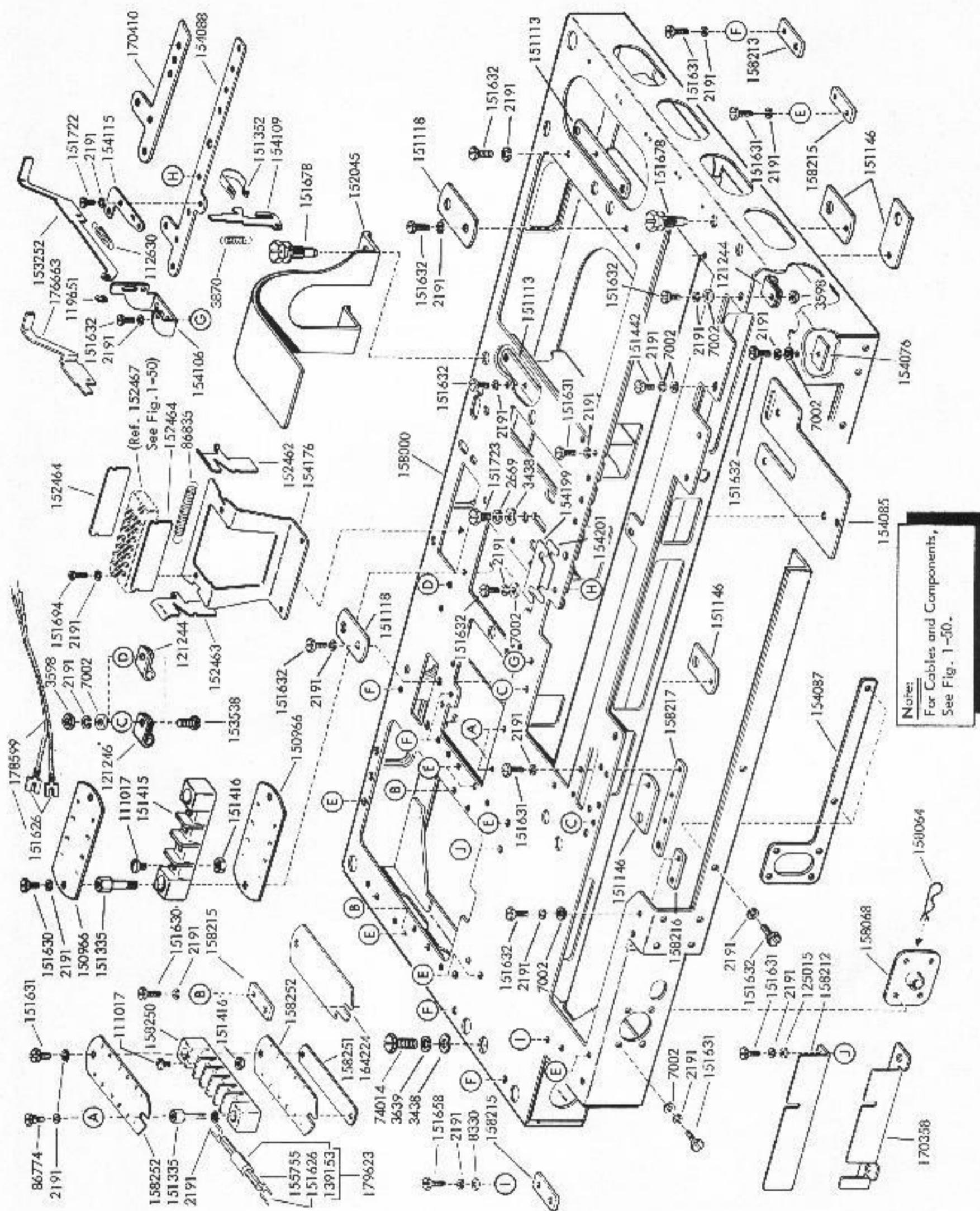


FIGURE 1-1. KEYBOARD BASE PARTS

1169B

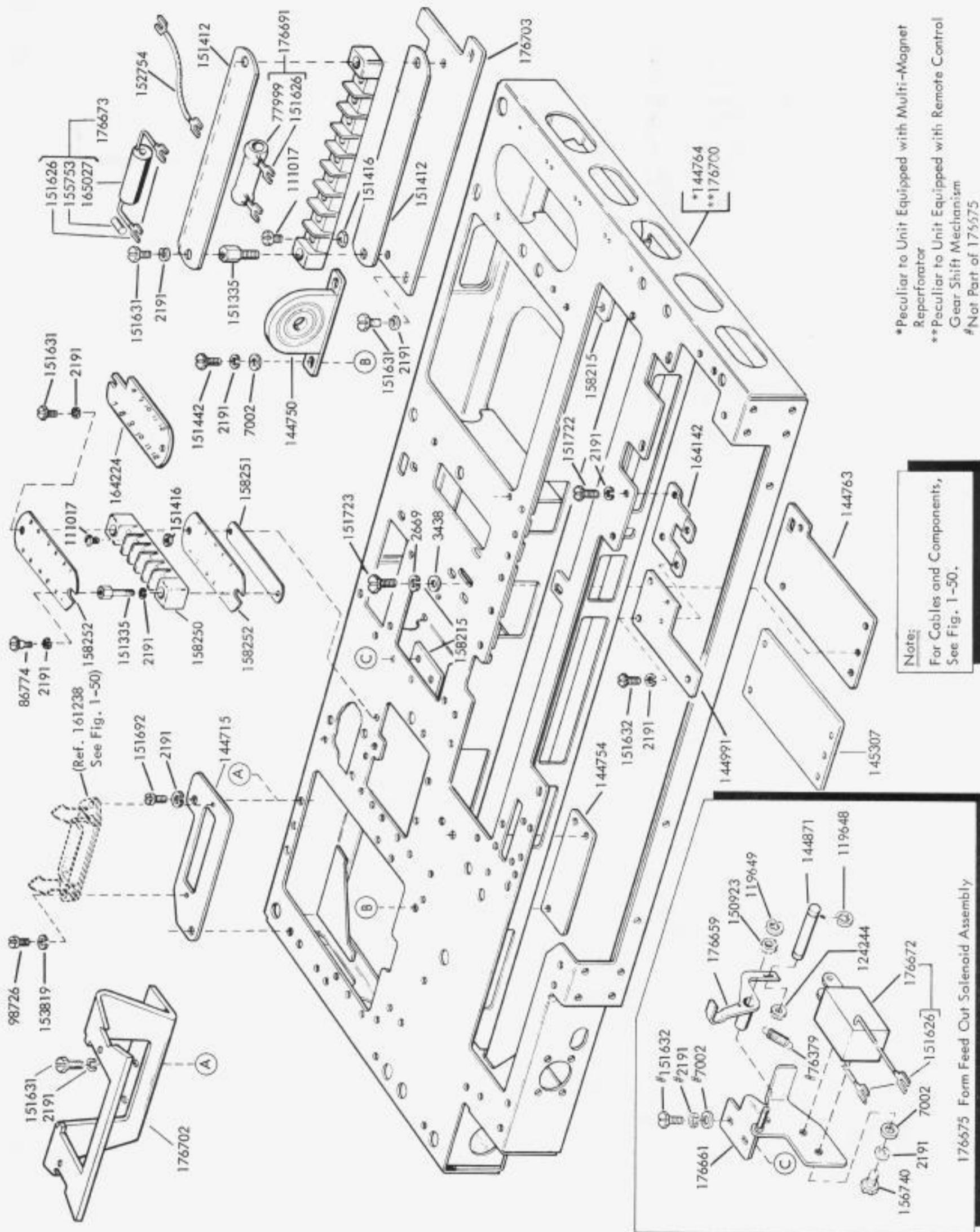


FIGURE 1-2. KEYBOARD BASE PARTS

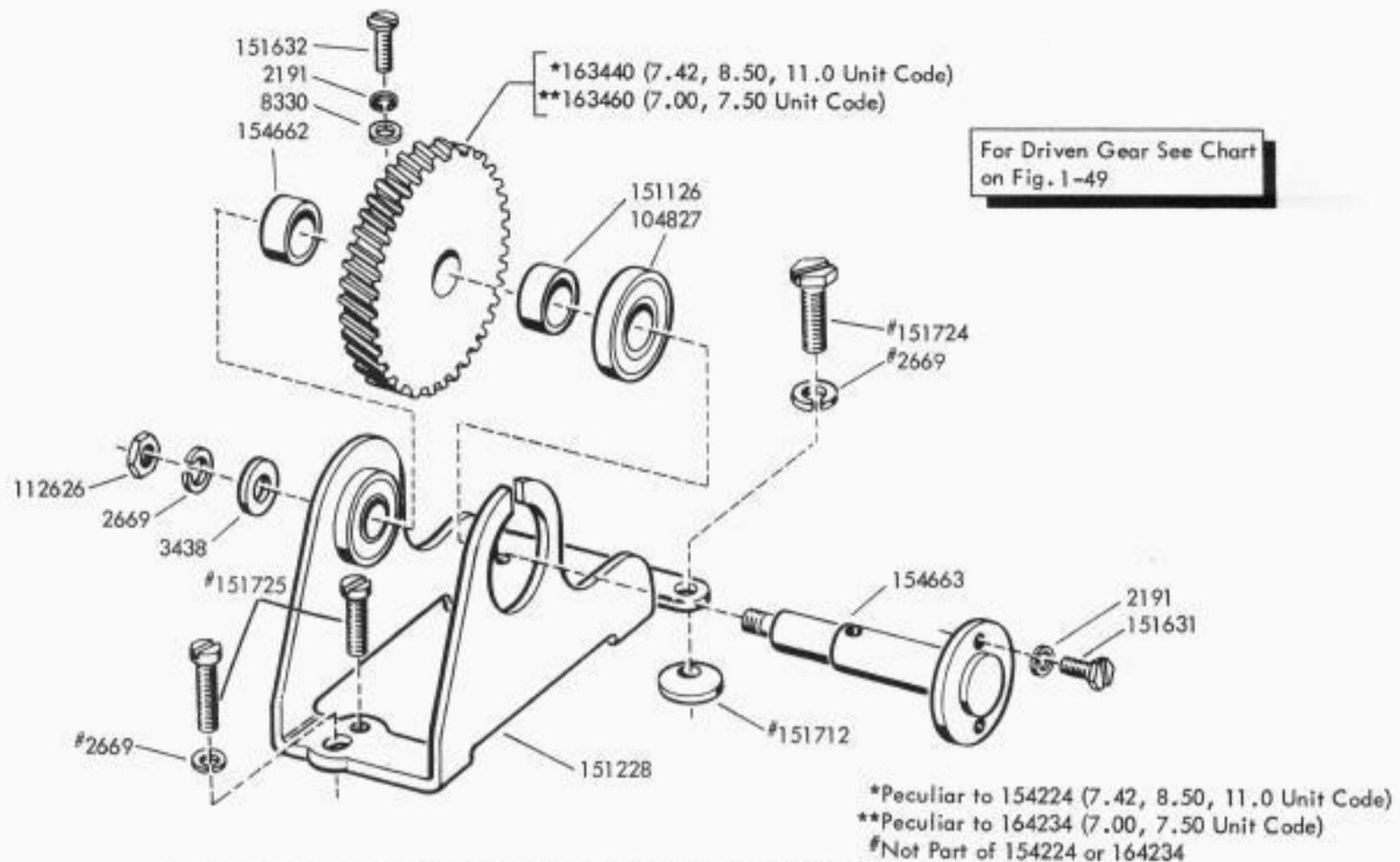


FIGURE 1-3. 154224 AND 164234 INTERMEDIATE GEAR ASSEMBLIES

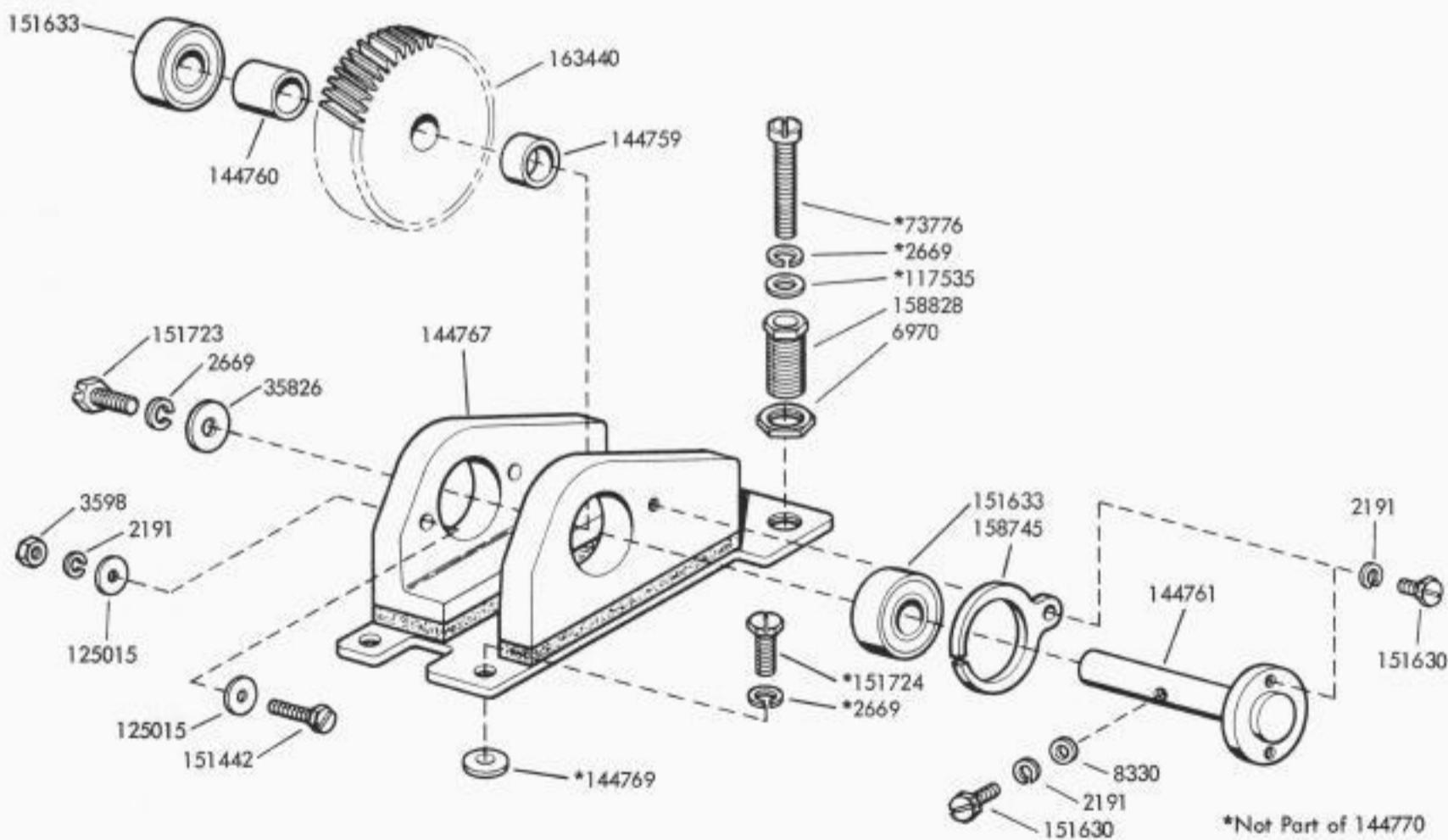
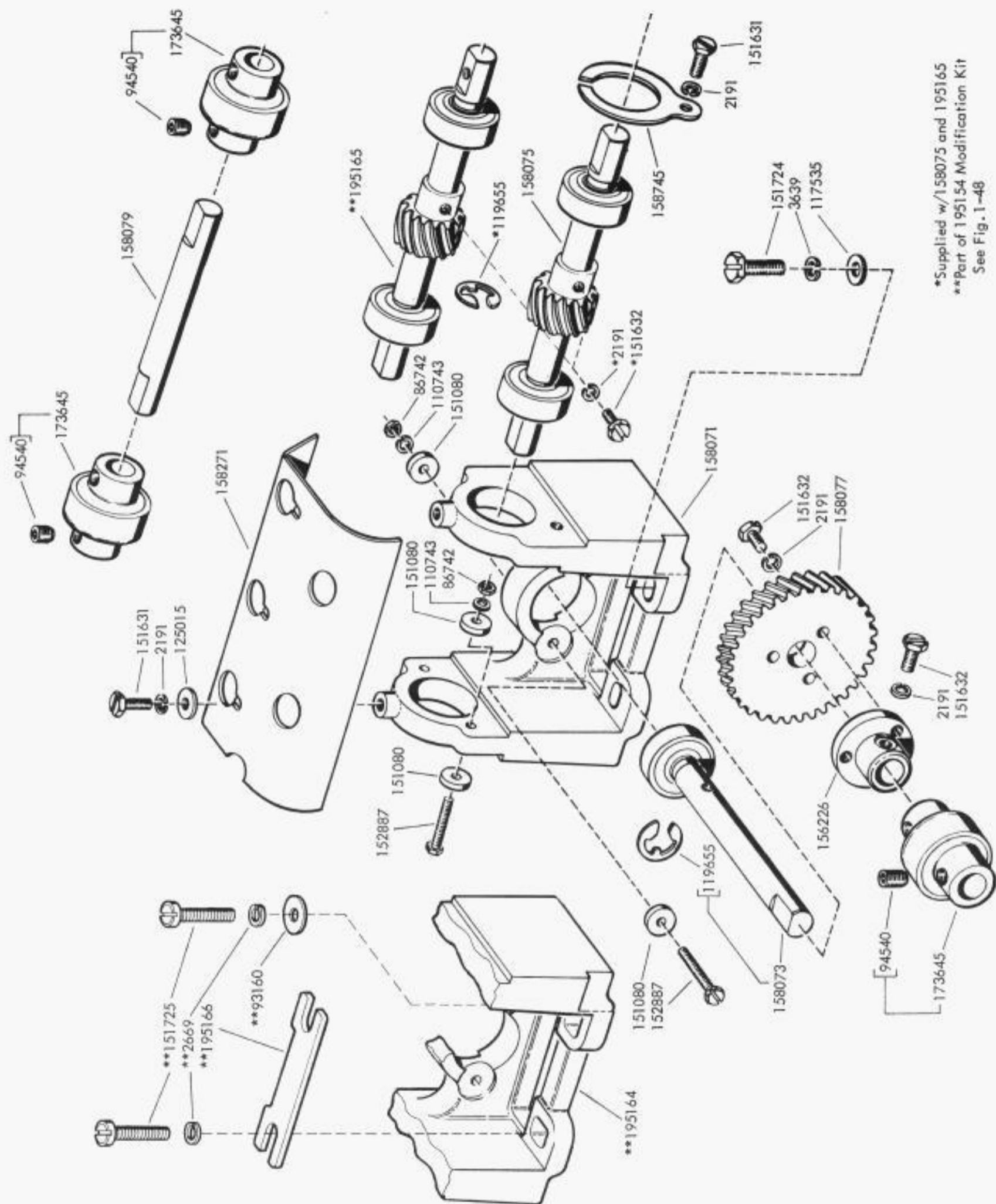


FIGURE 1-4. 144770 INTERMEDIATE GEAR ASSEMBLY (NOISE REDUCTION)



*Supplied w/158075 and 195165
**Part of 195154 Modification Kit
See Fig. 1-48

See Figure 1-6 for Later Design

FIGURE 1-5. BEARING BRACKET MECHANISM (EARLY DESIGN)

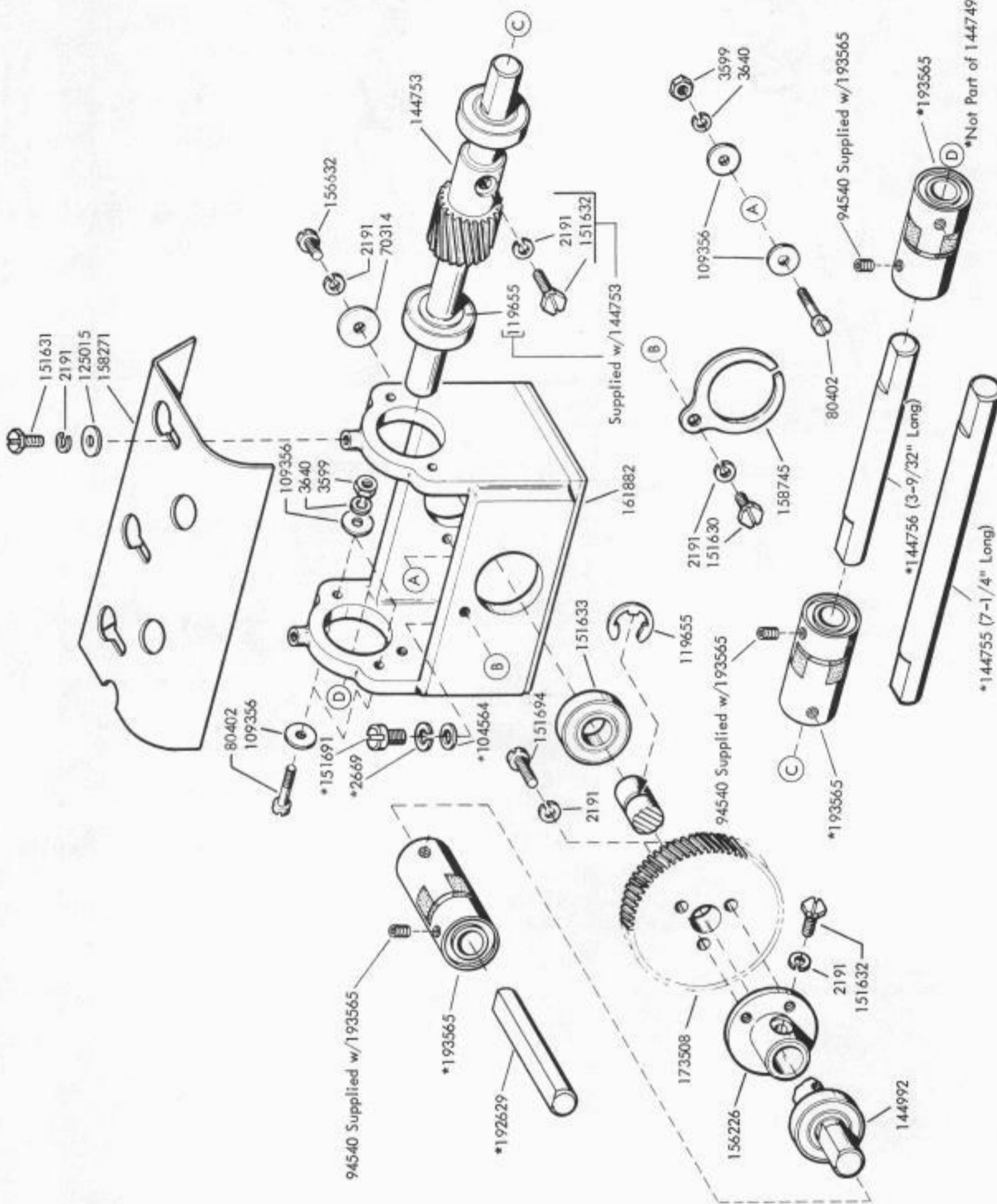
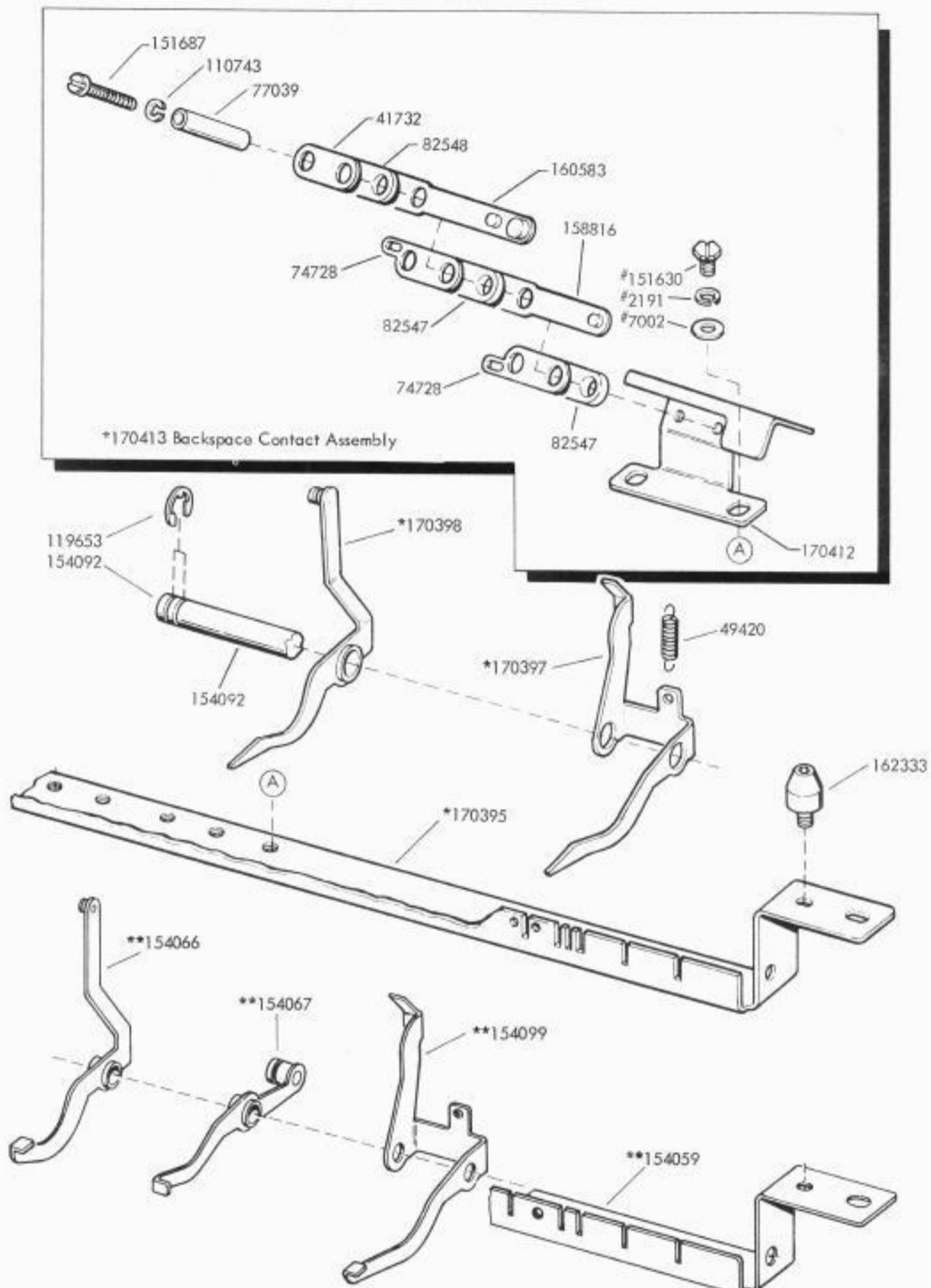


FIGURE 1-6. 144749 BEARING BRACKET ASSEMBLY



*Peculiar to 6 and 8 Level Units
**Peculiar to 5 Level Units
#Not Part of 170413 Assembly

FIGURE 1-7. FUNCTION BAIL MECHANISM

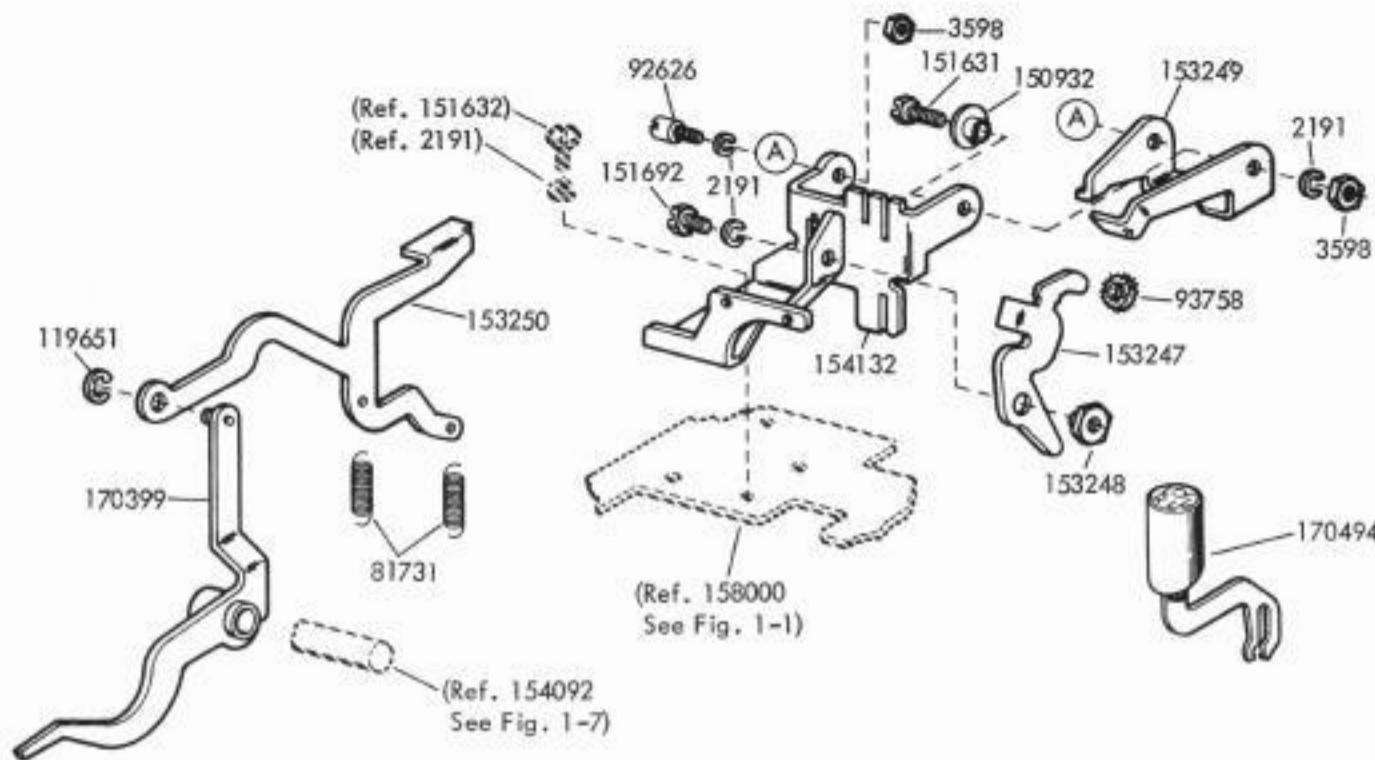


FIGURE 1-8. LOCAL REVERSE LINE FEED MECHANISM (8 LEVEL)

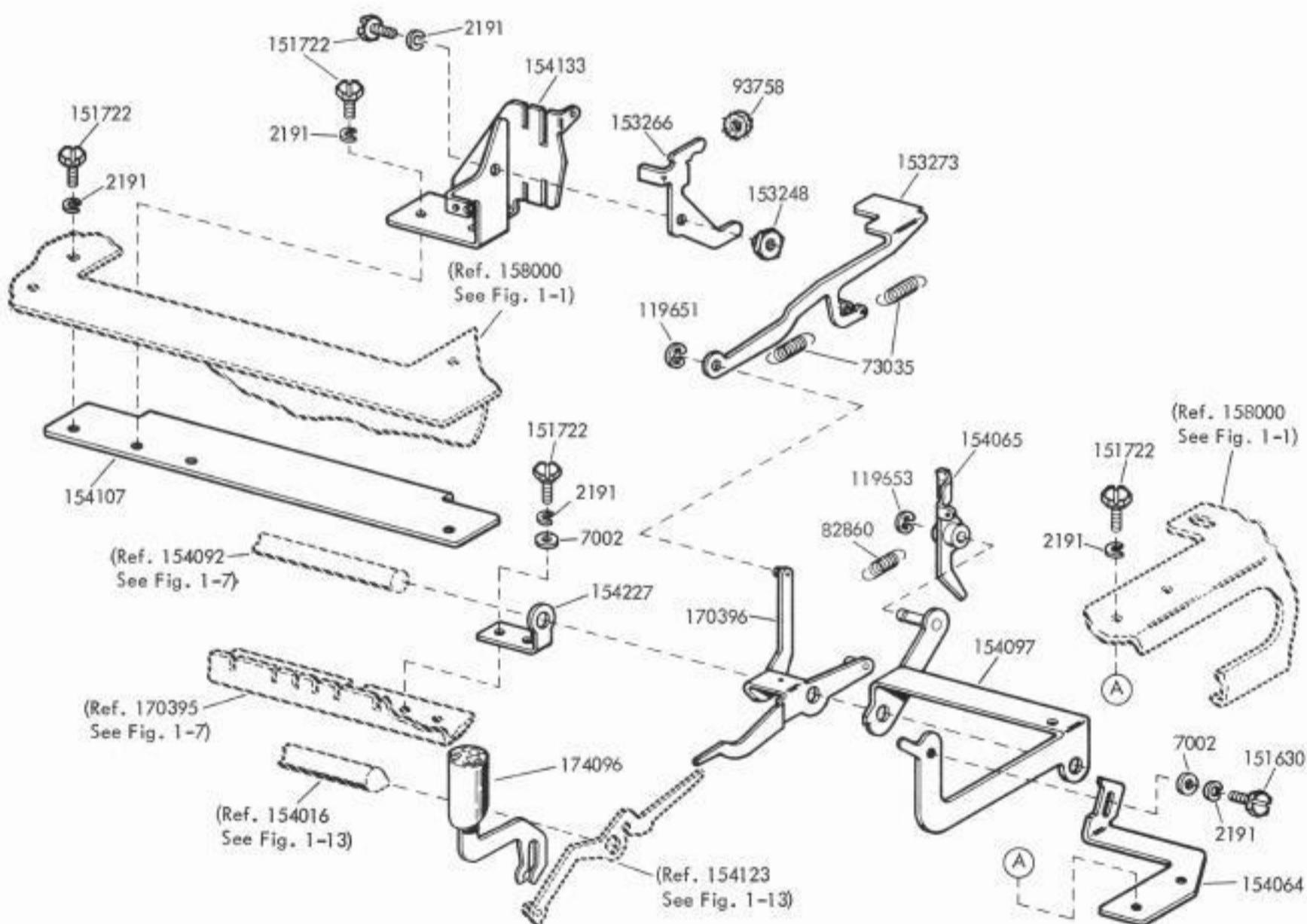


FIGURE 1-9. LOCAL BACKSPACE MECHANISM (6 AND 8 LEVEL)

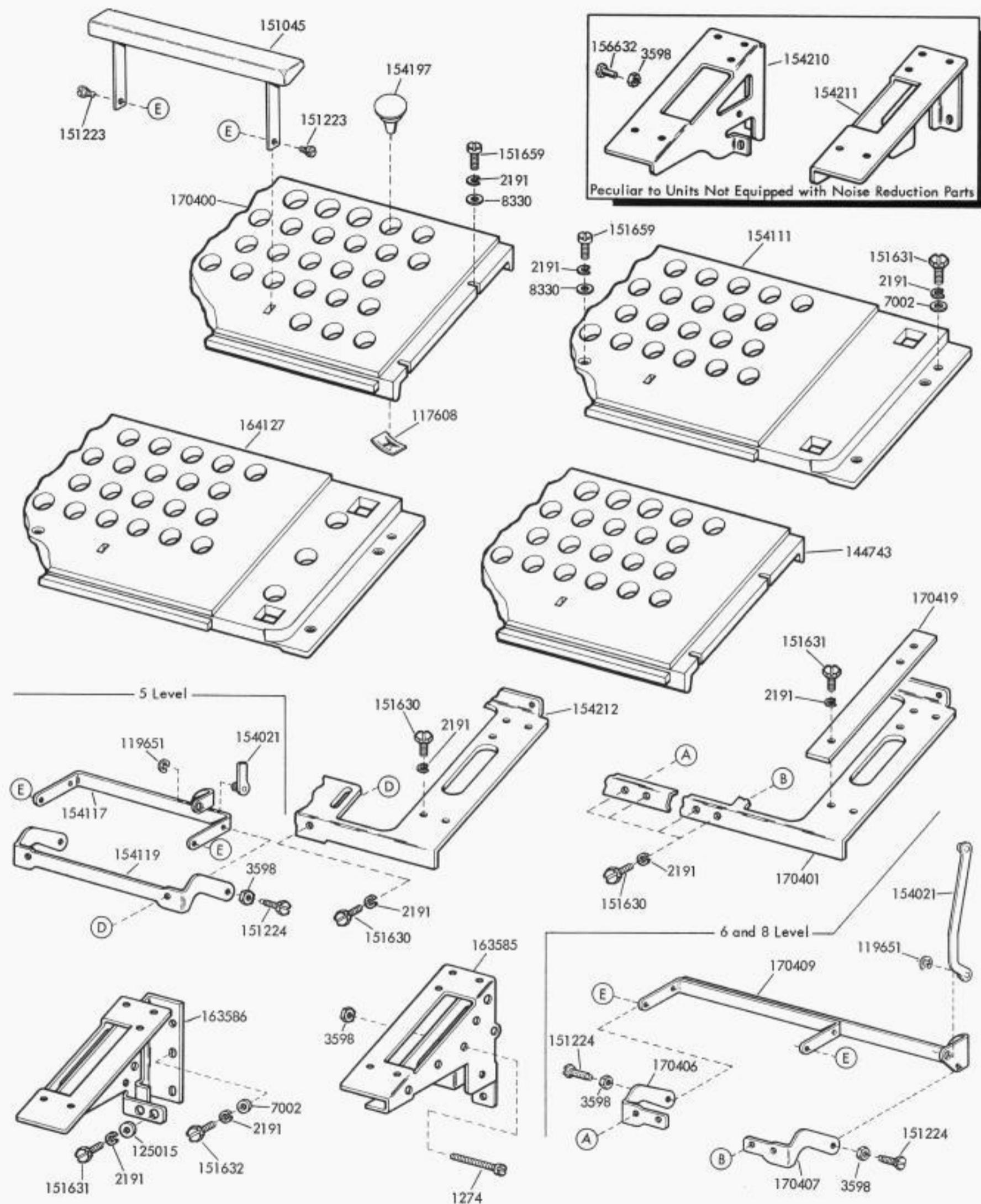
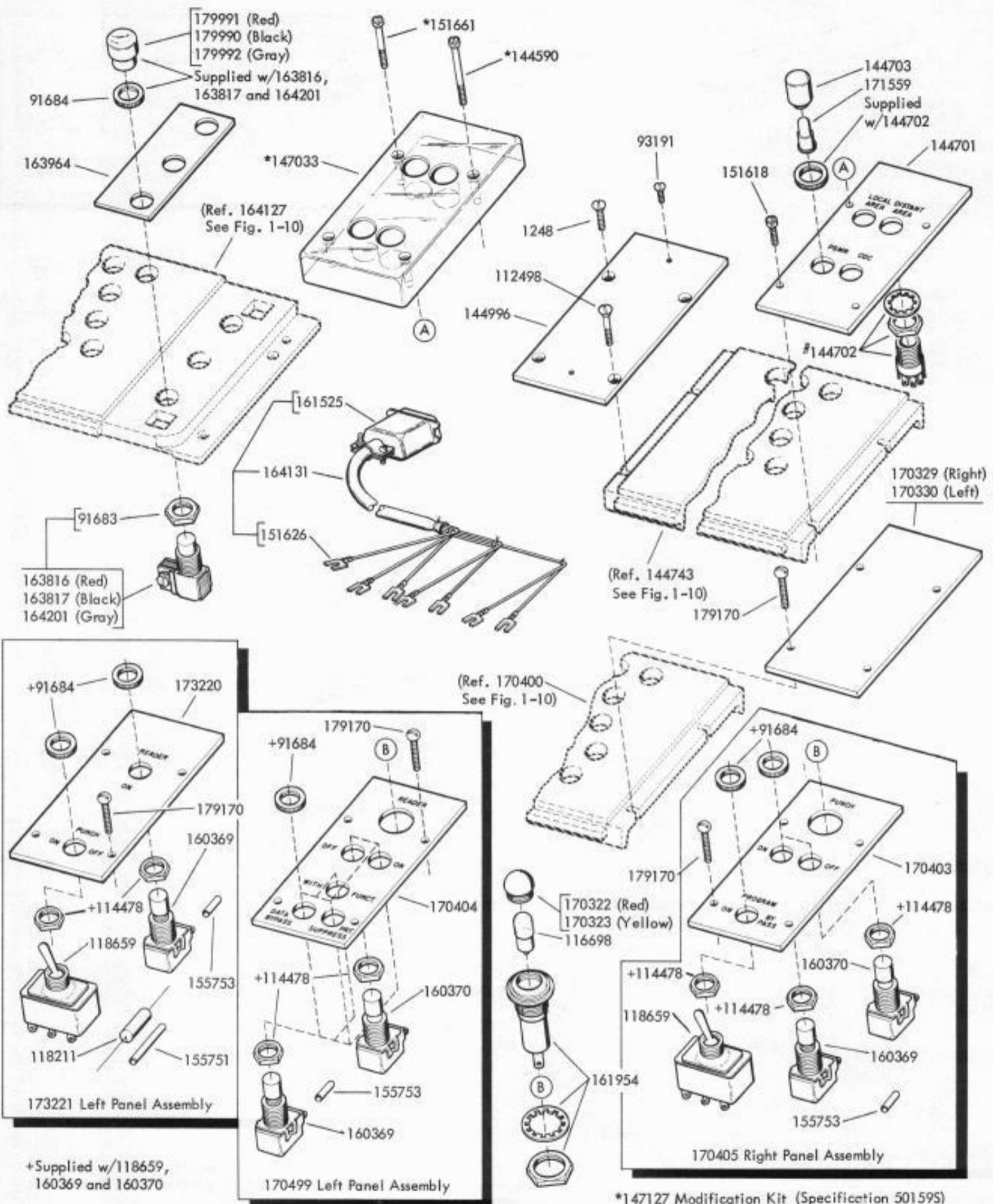


FIGURE 1-10. KEYLEVER GUIDE PLATES

1169B



*147127 Modification Kit (Specification 501595)

#Part of 144741 Cable Assembly See Fig. 1-50

FIGURE 1-11. KEYBOARD TOP PLATES AND PANEL ASSEMBLIES

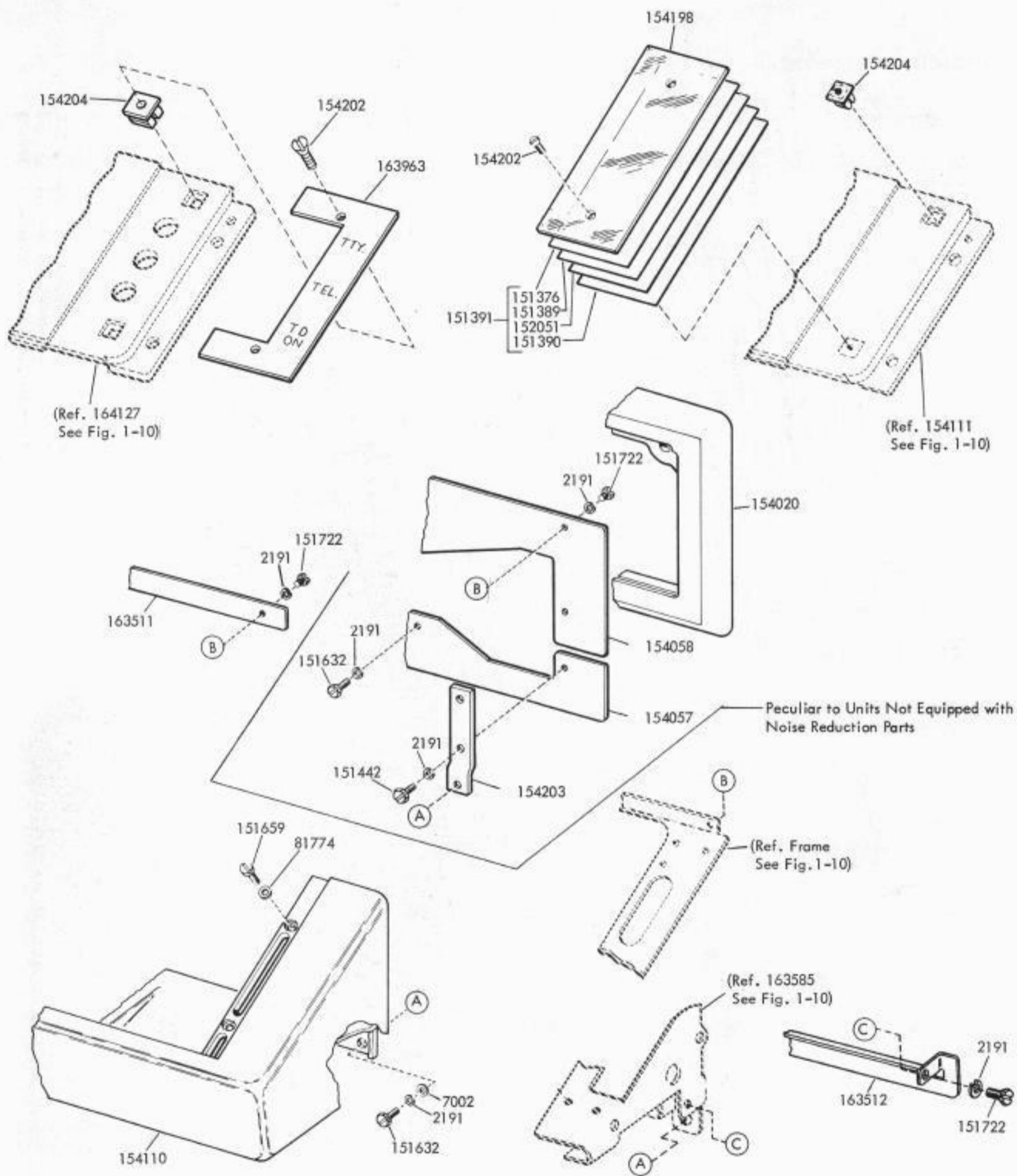


FIGURE 1-12. KEYBOARD HOOD AND MOUNTING PARTS

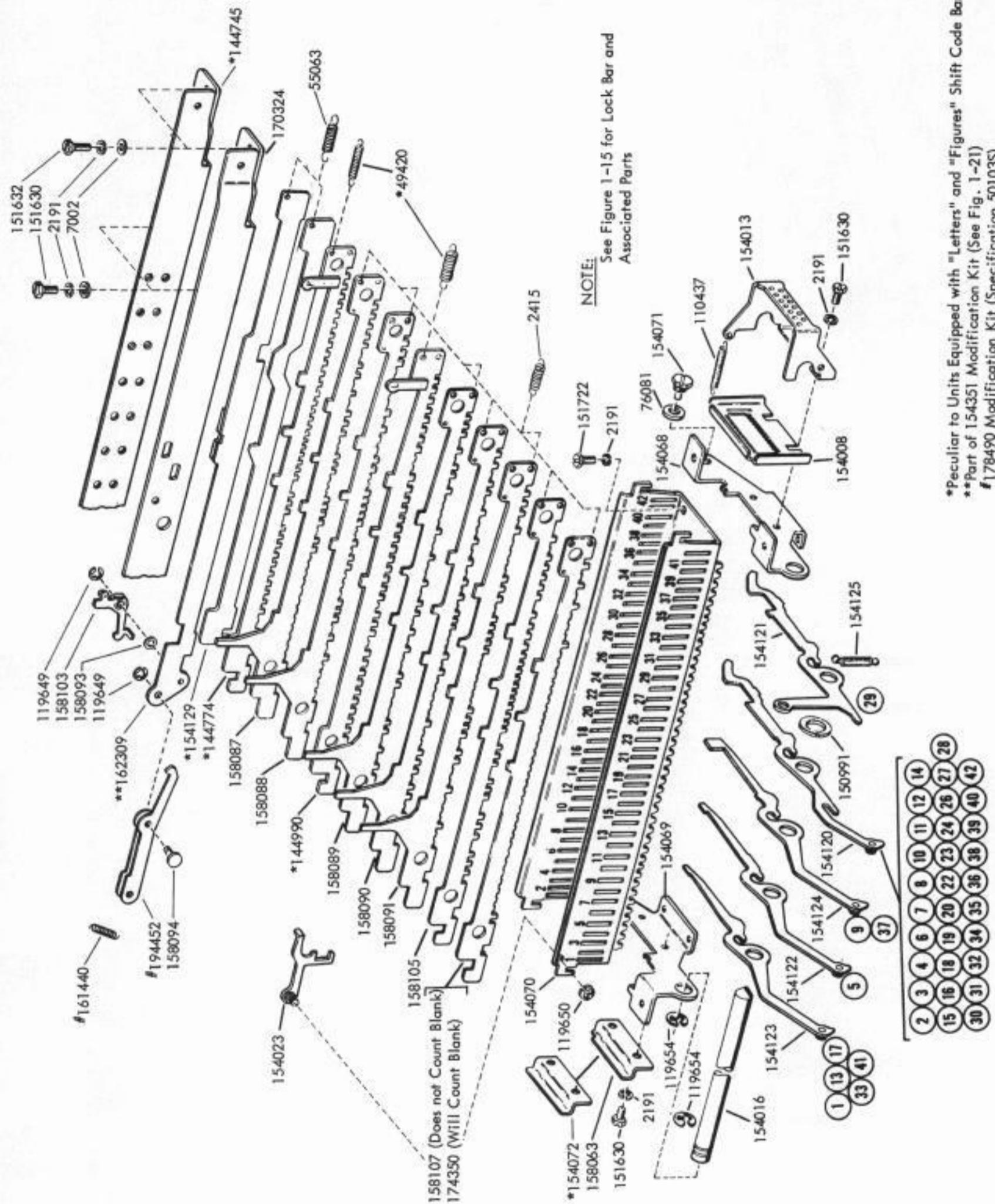


FIGURE 1-13. CODE BAR MECHANISM (5 LEVEL)

*Peculiar to Units Equipped with "Letters" and "Figures" Shift Code Bars
 **Part of 154351 Modification Kit (See Fig. 1-21)
 #178490 Modification Kit (Specification 501035)

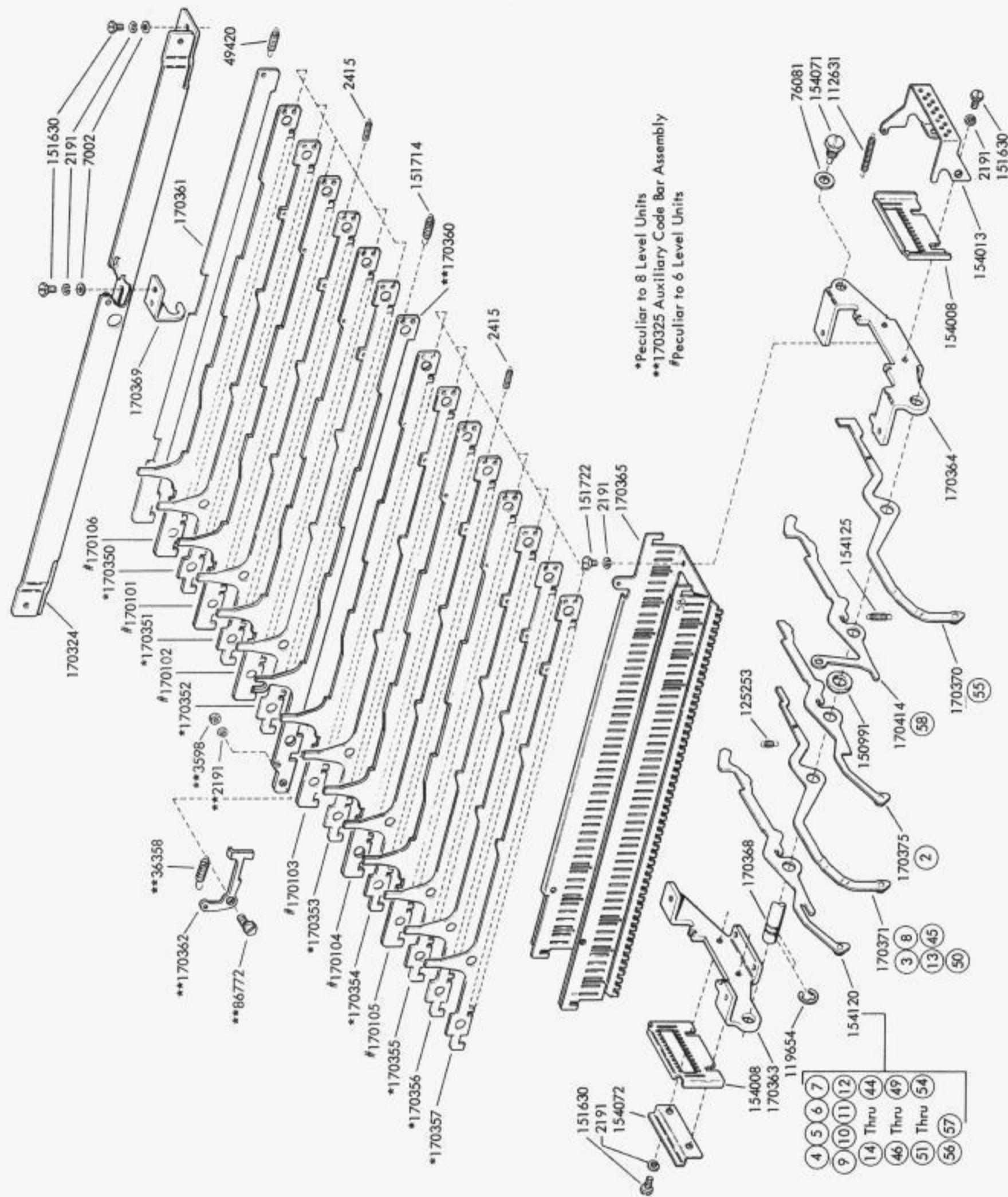


FIGURE 1-14. CODE BAR MECHANISM (6 AND 8 LEVEL)

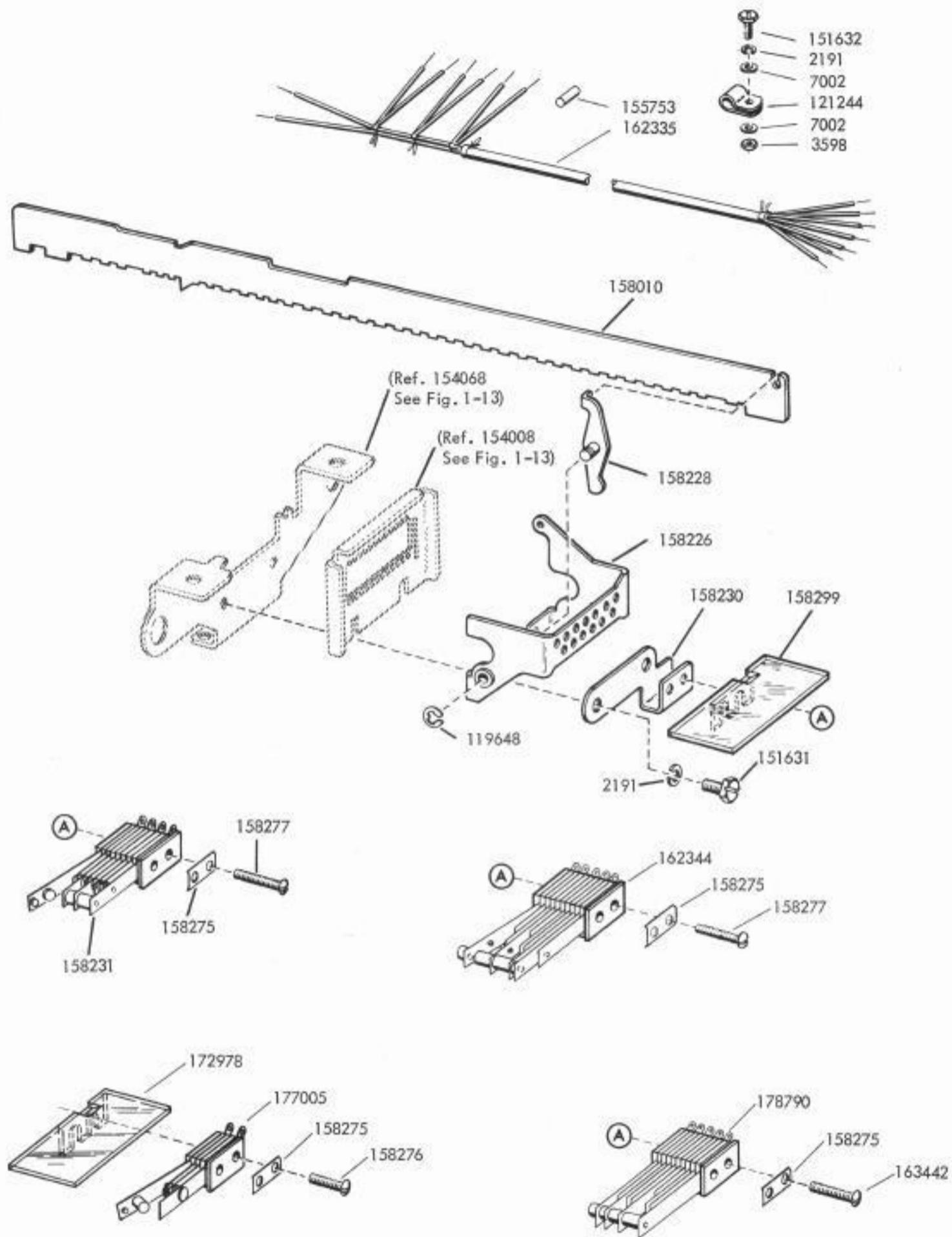


FIGURE 1-15. CONTACT ASSEMBLIES

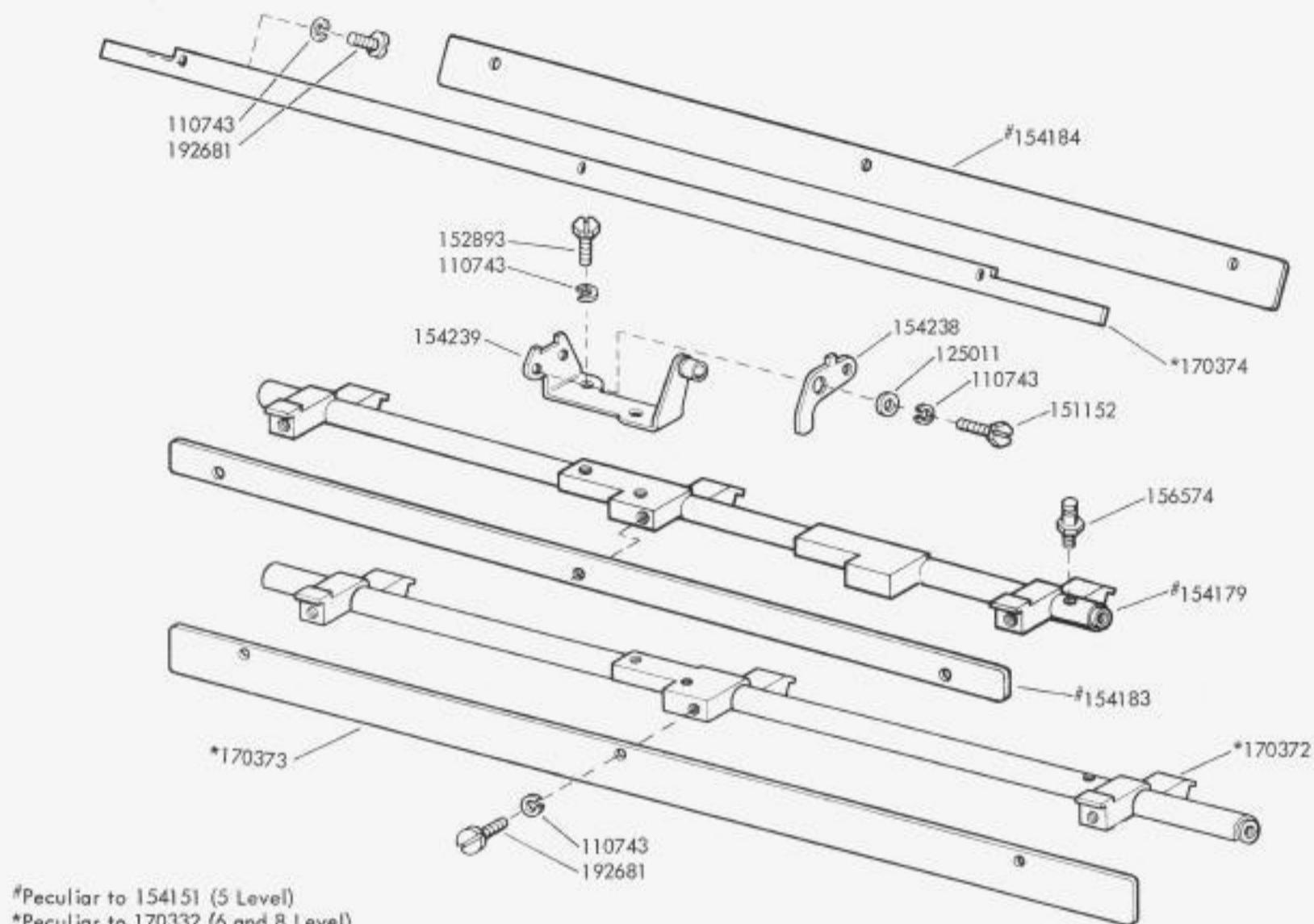


FIGURE 1-16. 154151 AND 170332 UNIVERSAL BAIL ASSEMBLIES

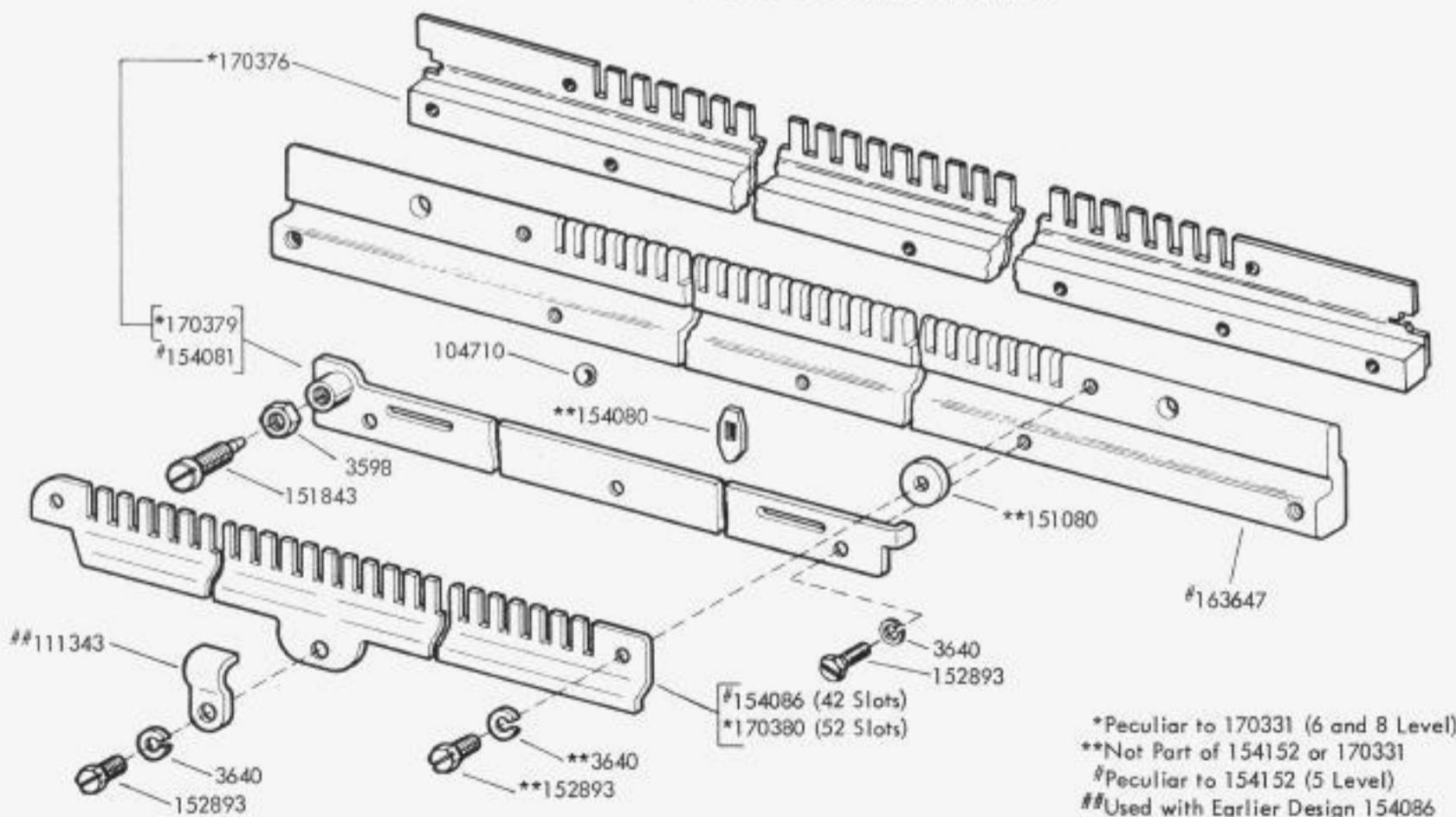
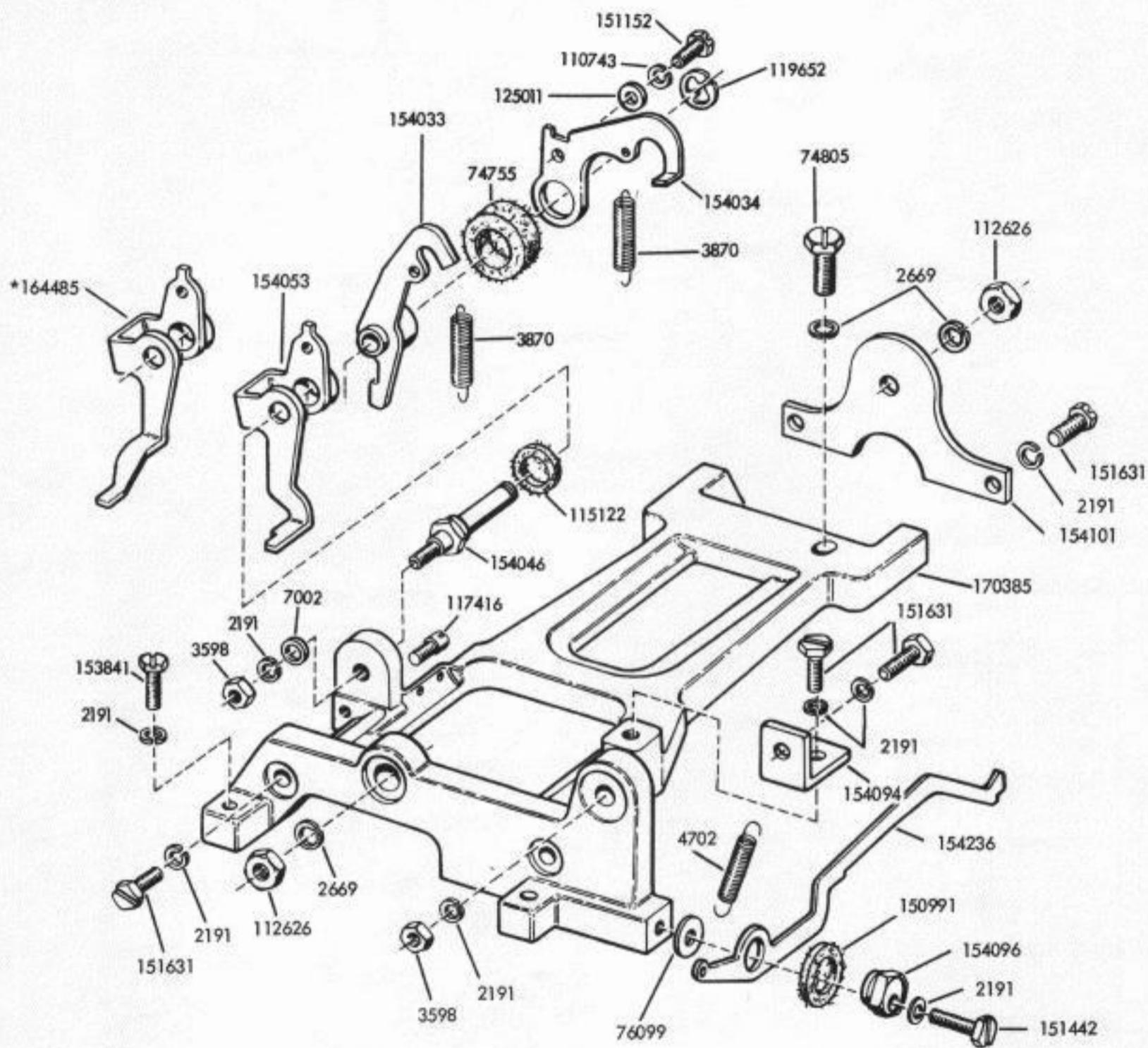
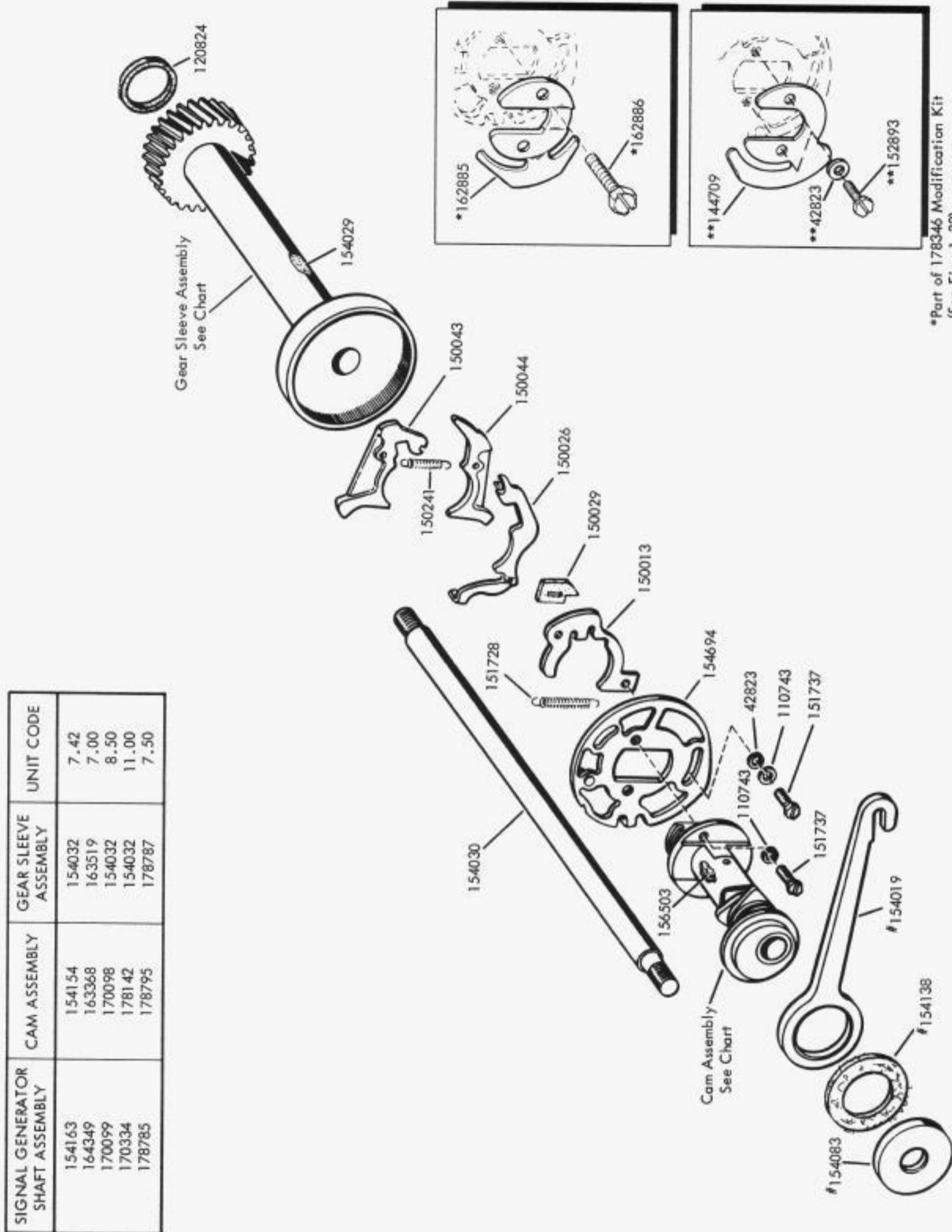


FIGURE 1-17. 154152 AND 170331 BALL LOCK BAR ASSEMBLIES



*Peculiar to Units Equipped with Synchronous Pulsed Transmission (See Fig. 1-34)

FIGURE 1-18. SIGNAL GENERATOR FRAME MECHANISM



*Part of 178346 Modification Kit
(See Fig. 1-33)

**Part of 144708 Modification Kit
(See Fig. 1-28)

#Not Part of Signal Generator Shaft Assemblies

FIGURE 1-19. SIGNAL GENERATOR SHAFT ASSEMBLIES

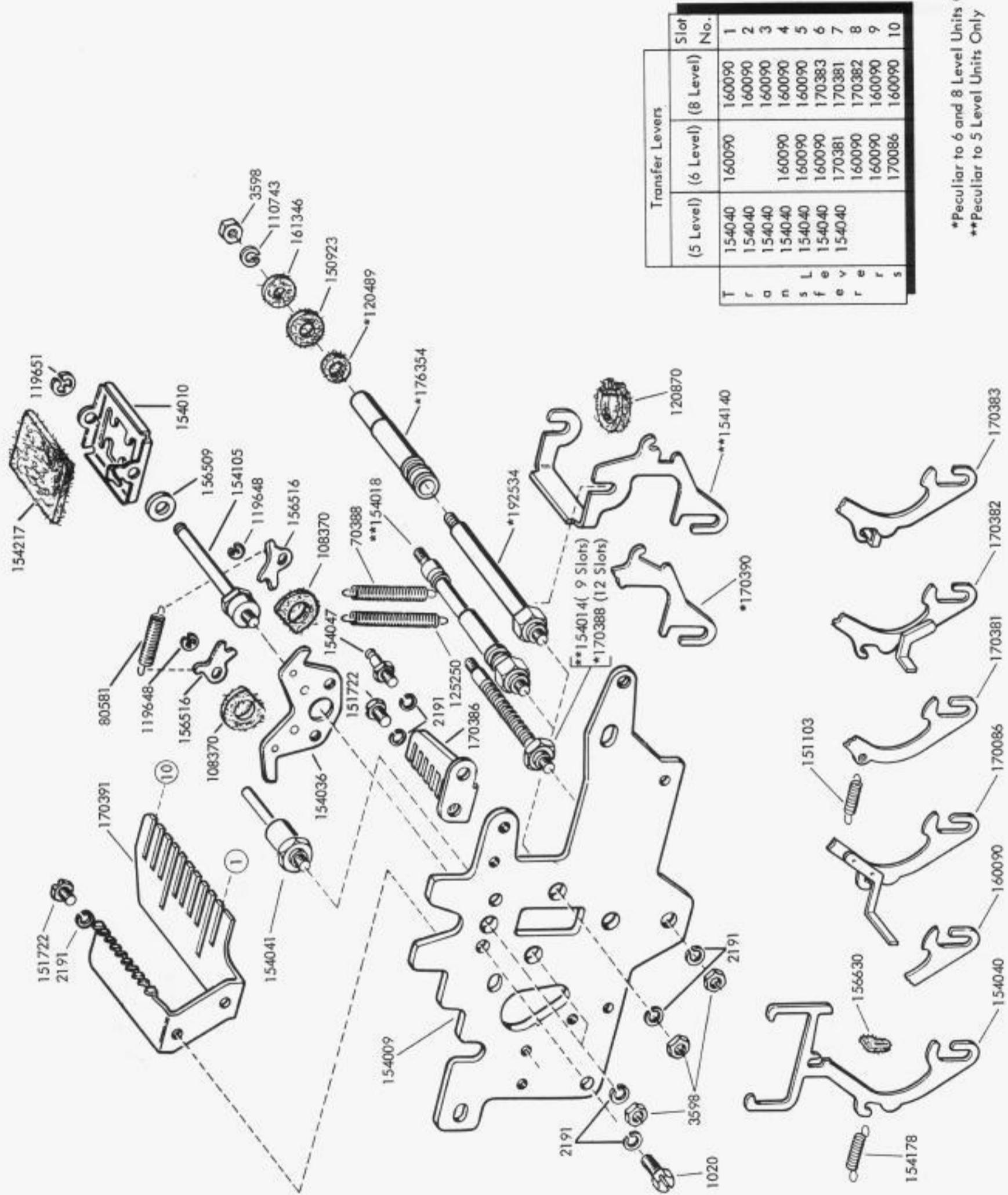


FIGURE 1-20. SIGNAL GENERATOR FRONT PLATE MECHANISM

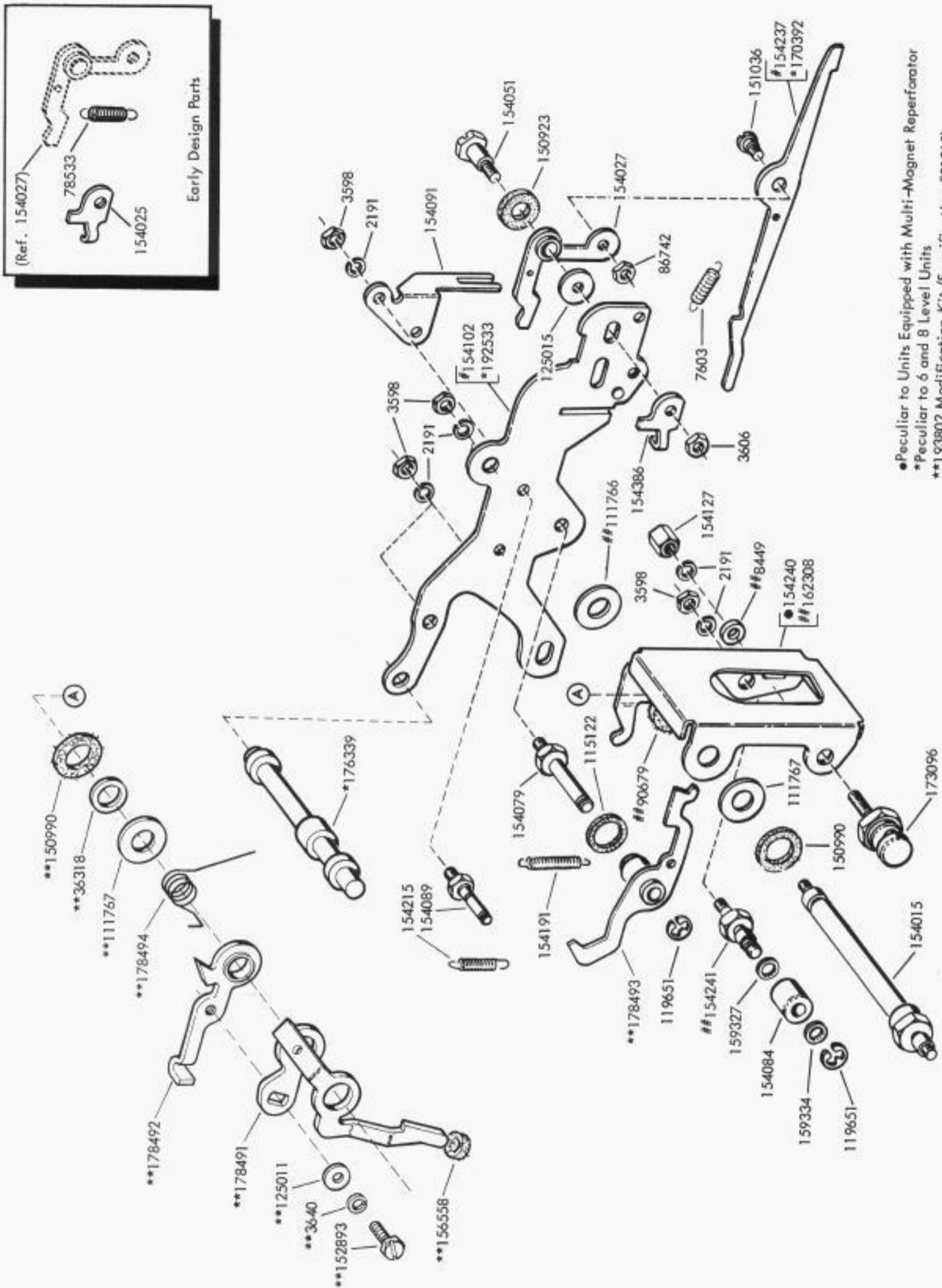
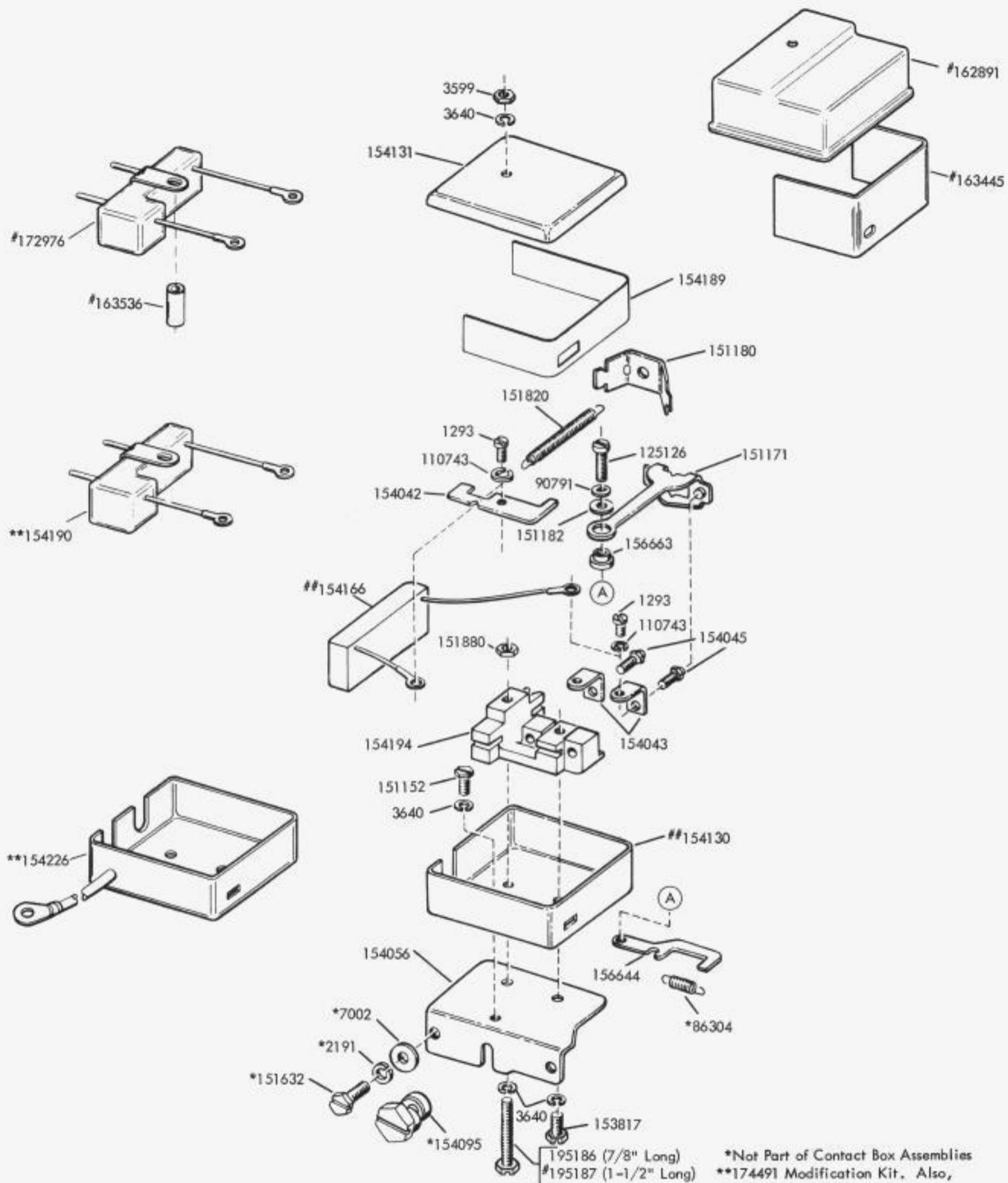


FIGURE 1-21. SIGNAL GENERATOR REAR PLATE MECHANISM



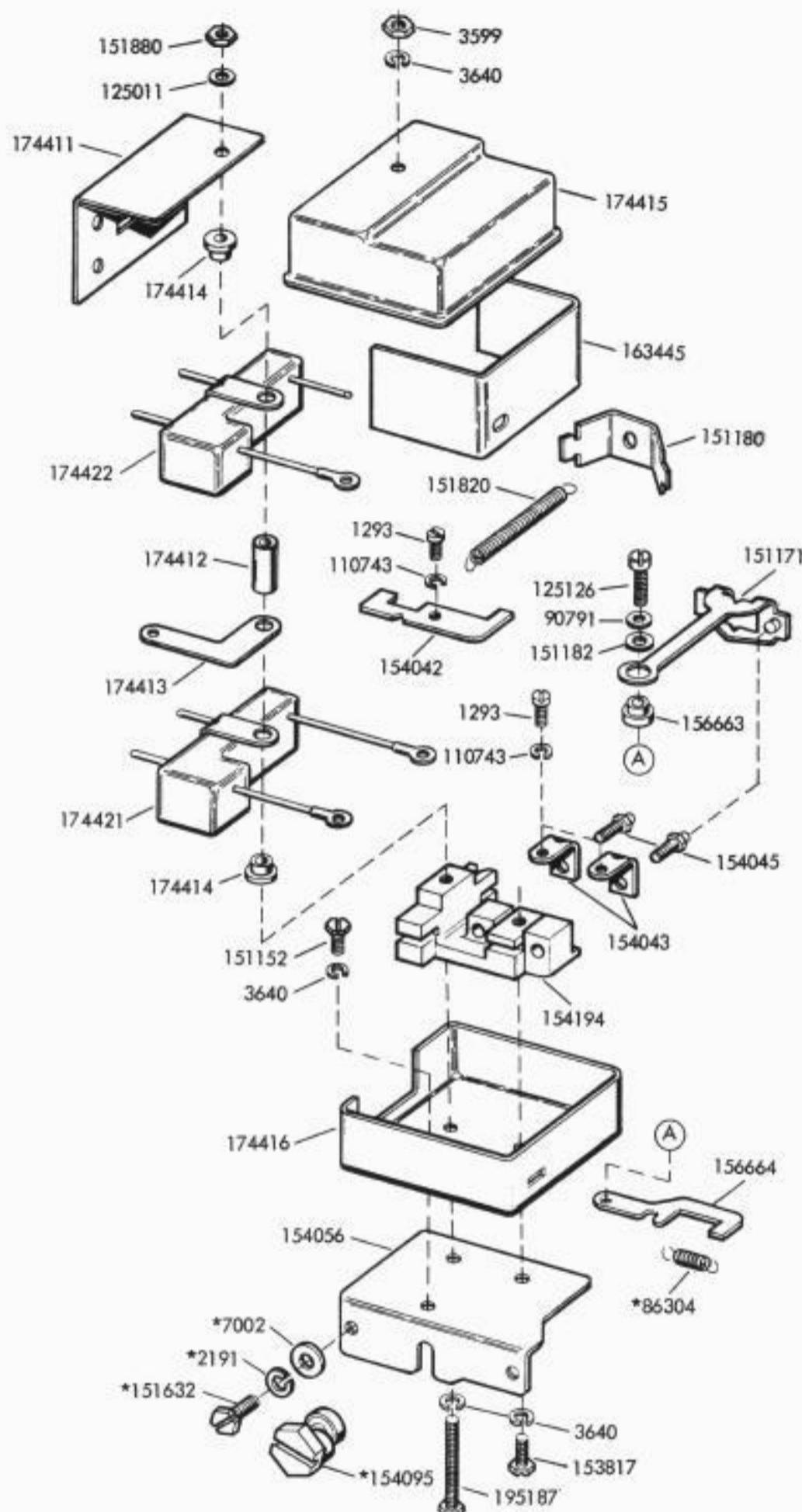
*Not Part of Contact Box Assemblies

**174491 Modification Kit. Also, part of 154225 and 162892.

#Peculiar to 162892

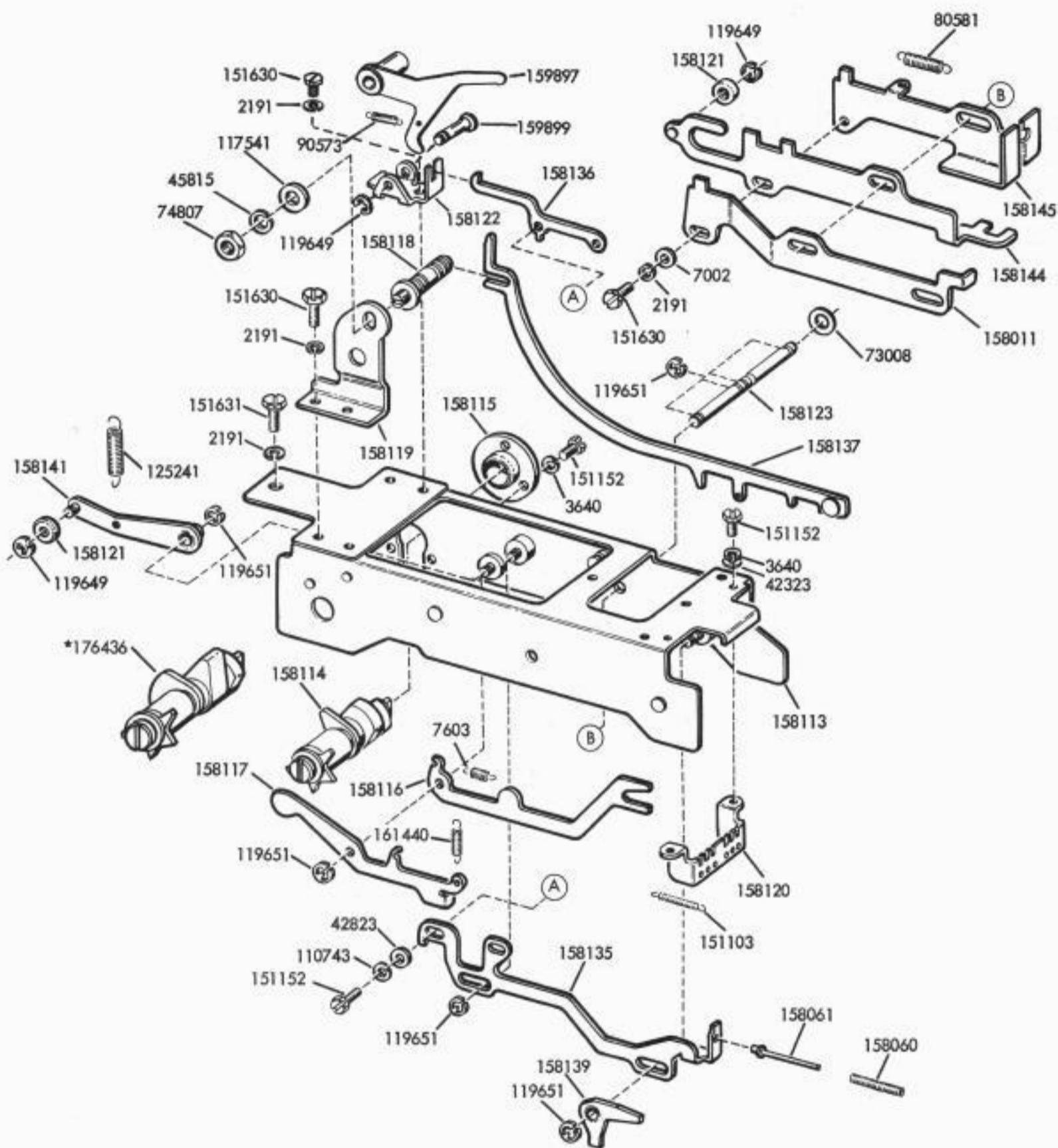
##Peculiar to 154165

FIGURE 1-22. 154165 (W/ARC SUPPRESSION), 154225 (W/RF SUPPRESSION)- NEUTRAL TRANSMISSION AND 162892 (W/RF SUPPRESSION - POLAR TRANSMISSION) CONTACT BOX ASSEMBLIES



*Not Part of 174410

FIGURE 1-23. 174410 CONTACT BOX ASSEMBLY W/RF SUPPRESSION - POLAR TRANSMISSION
(SHIELDED SIGNAL LINES)



*Mechanically isolates the Reperforator from the Keyboard in the K-T position.

FIGURE 1-24. CODE BAR EXTENSION BASKET MECHANISM

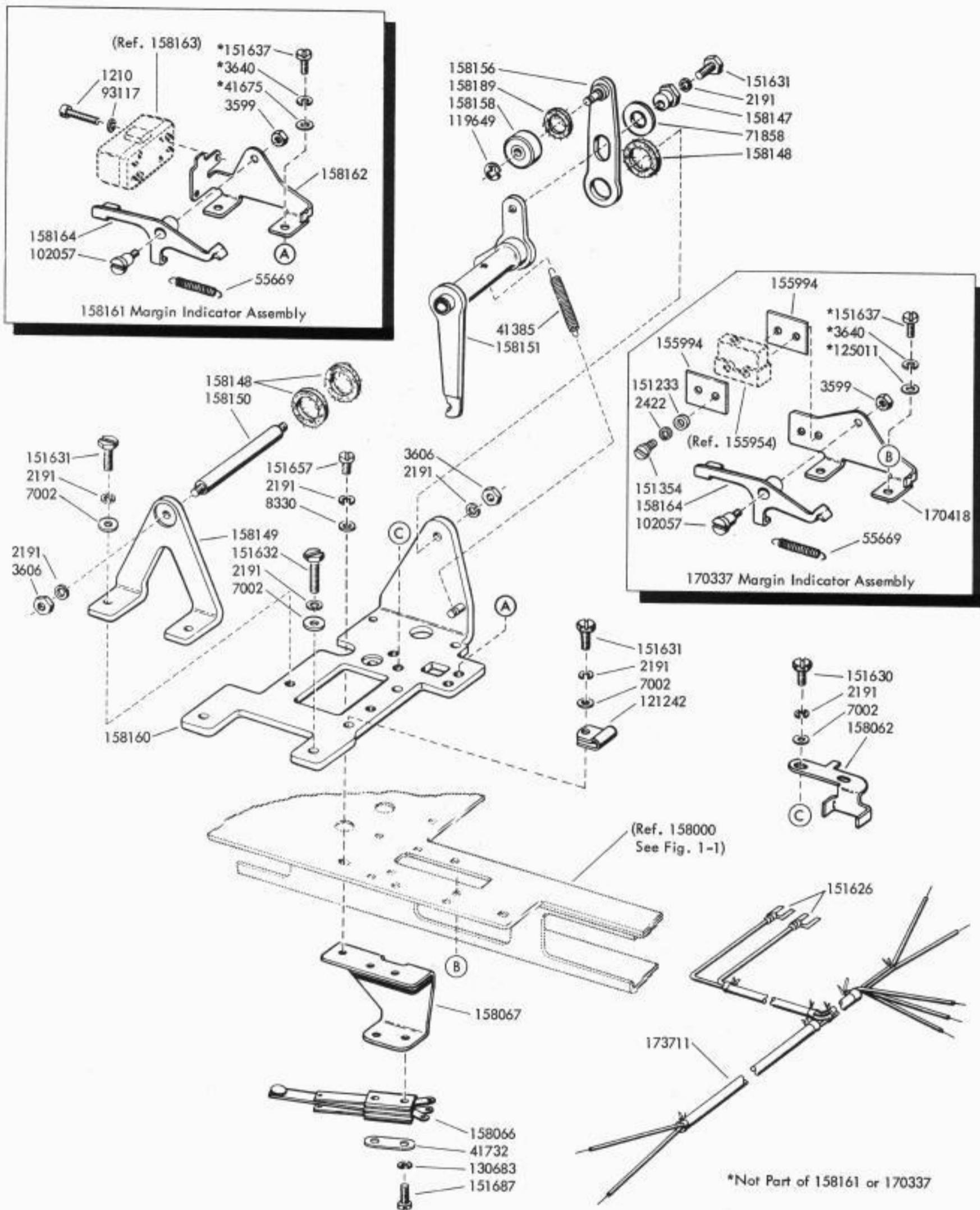
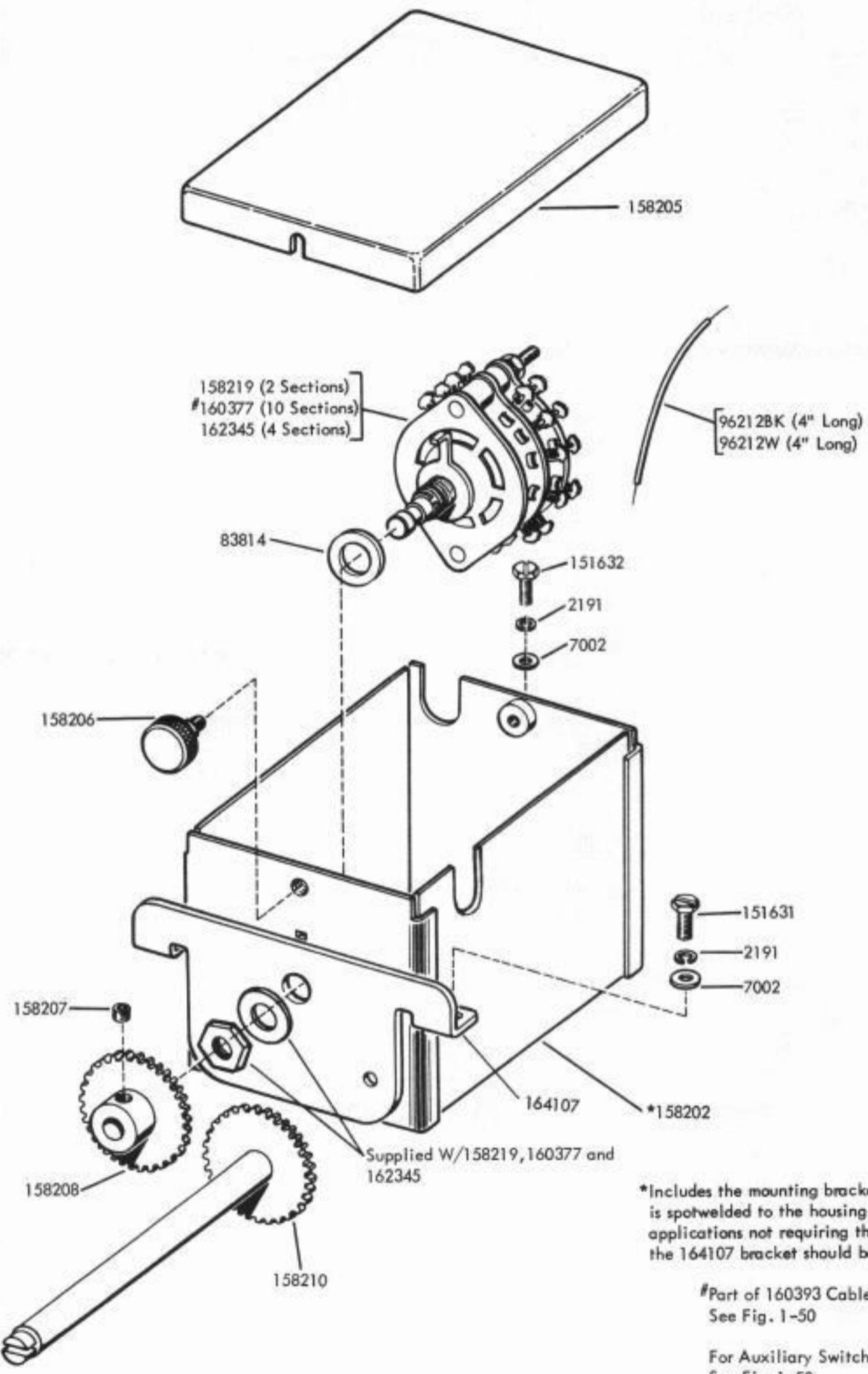


FIGURE 1-25. CAM FOLLOWER MECHANISM AND MARGIN INDICATOR ASSEMBLIES



*Includes the mounting bracket which is spotwelded to the housing. For applications not requiring the housing the 164107 bracket should be ordered.

#Part of 160393 Cable Assembly
See Fig. 1-50

For Auxiliary Switch Cables
See Fig. 1-50

FIGURE 1-26. 158220, 159871 AND 162342 AUXILIARY SWITCH MECHANISM

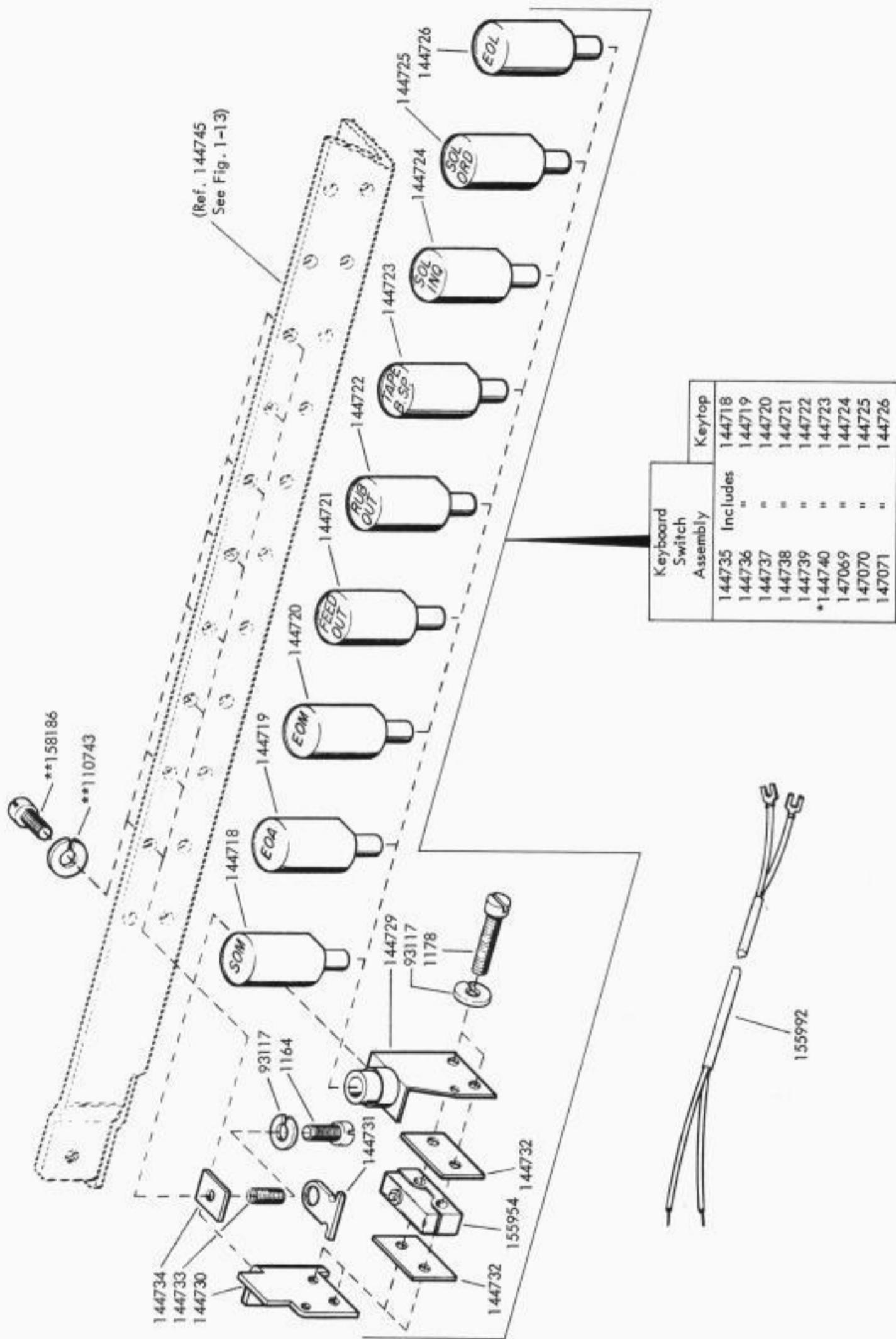
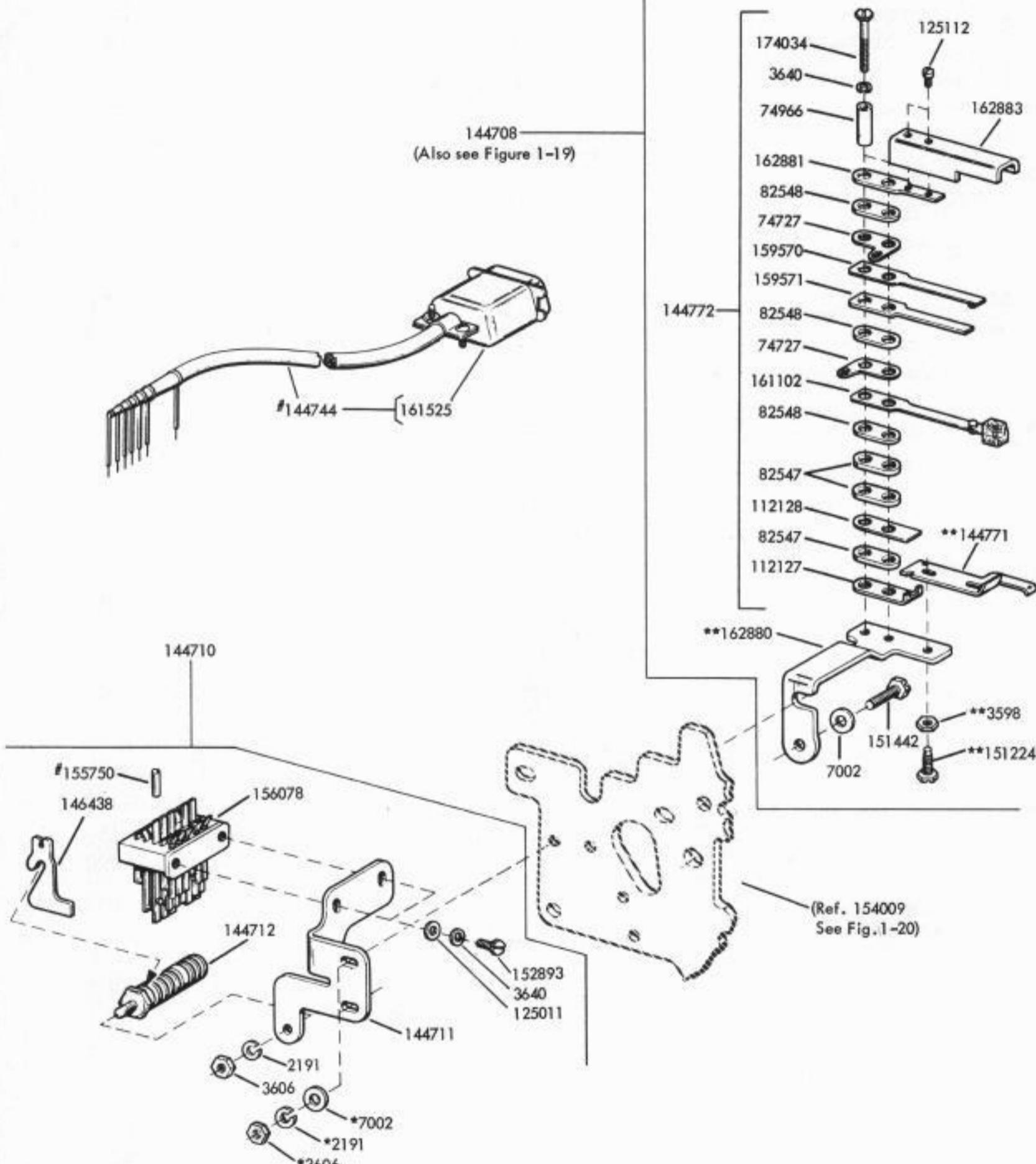


FIGURE 1-27. KEYBOARD SWITCH ASSEMBLIES



*Part of 144708

**Part of 144772

#Not Part of 144708 or 144710

FIGURE 1-28. 144708 (FUNCTION MAGNET CONTACT) AND
144710 (CODE READING CONTACTS) MODIFICATION KITS

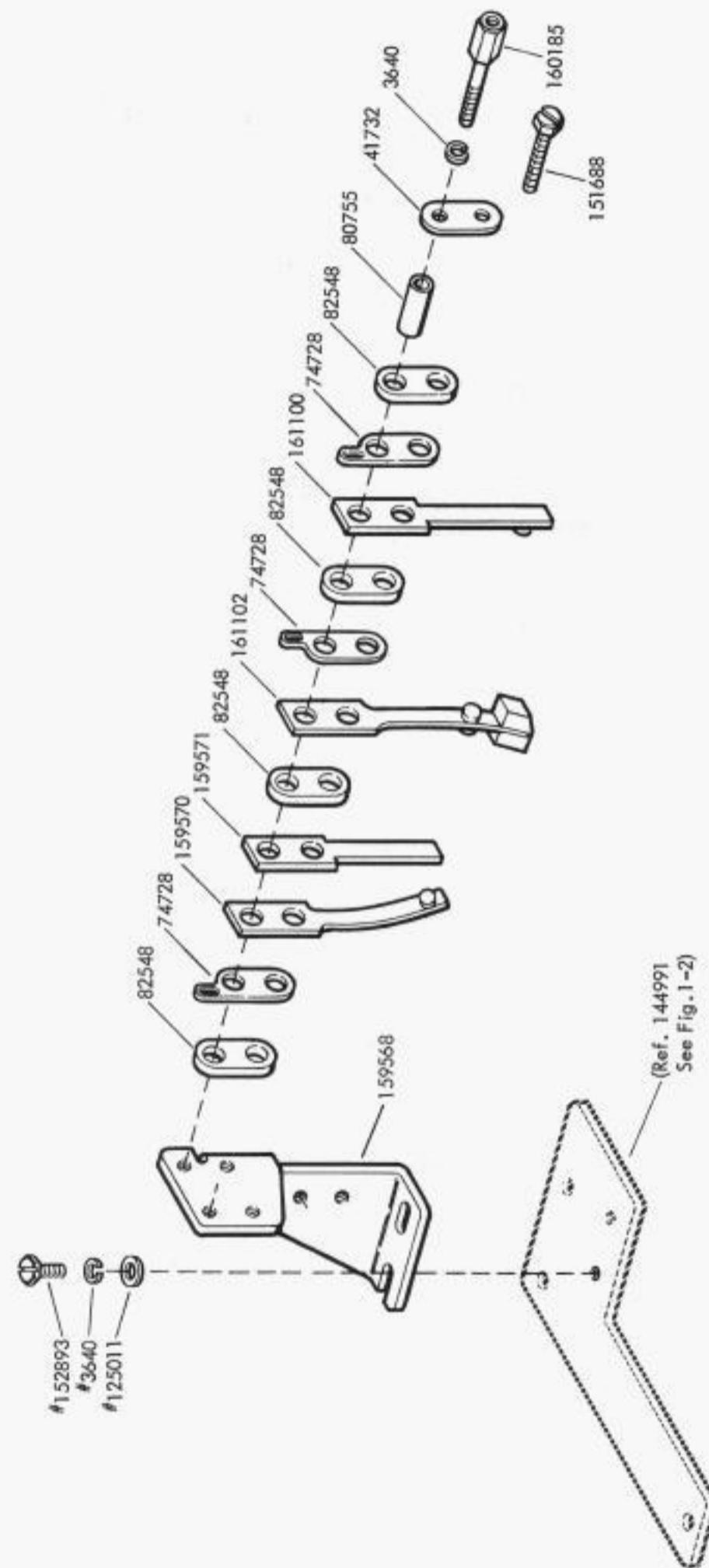


FIGURE 1-29. 144997 FIGURES - LETTERS CONTACT ASSEMBLY

#Not Part of 144997

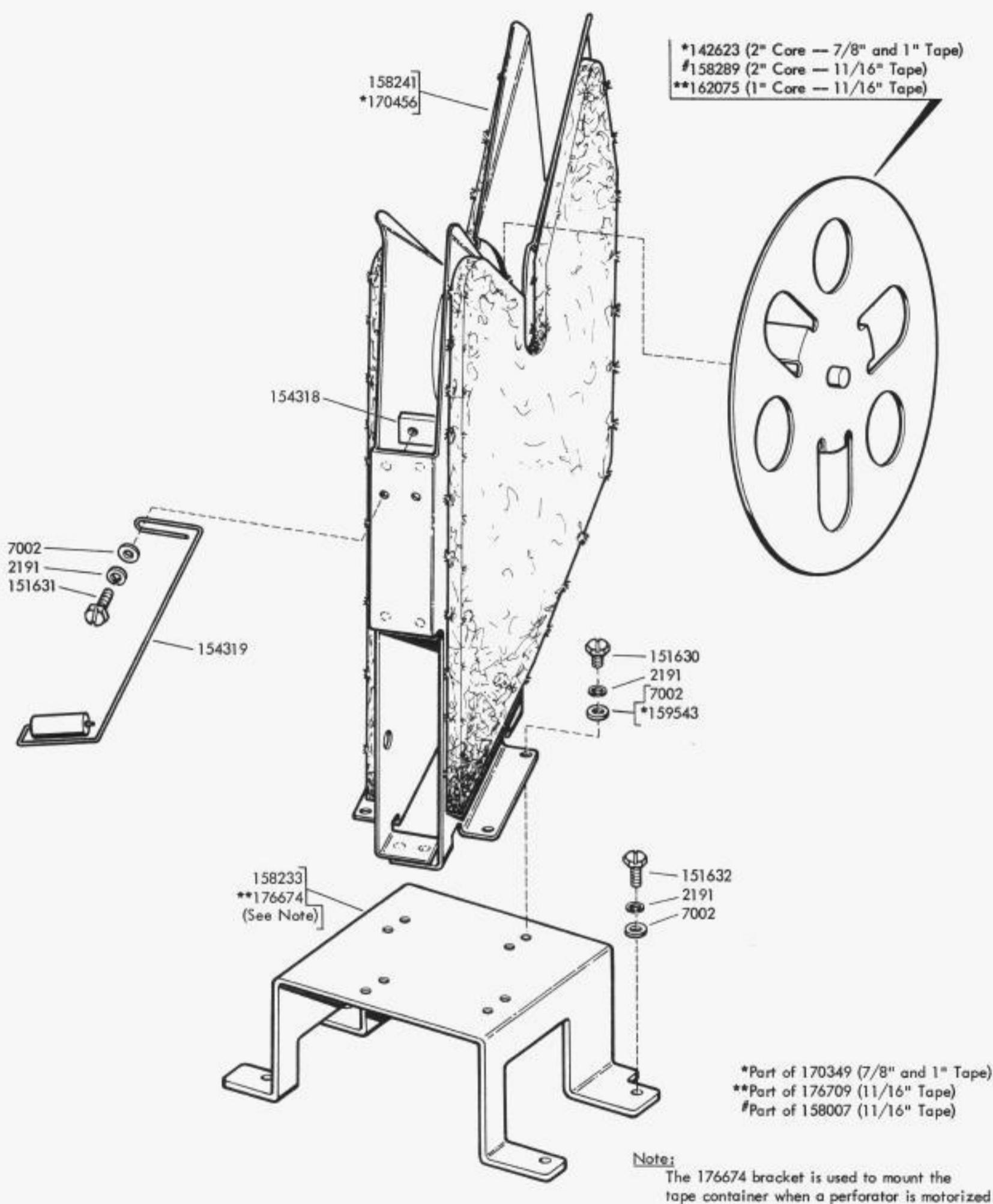


FIGURE 1-30. 158007, 170349 AND 176709 TAPE CONTAINER ASSEMBLIES

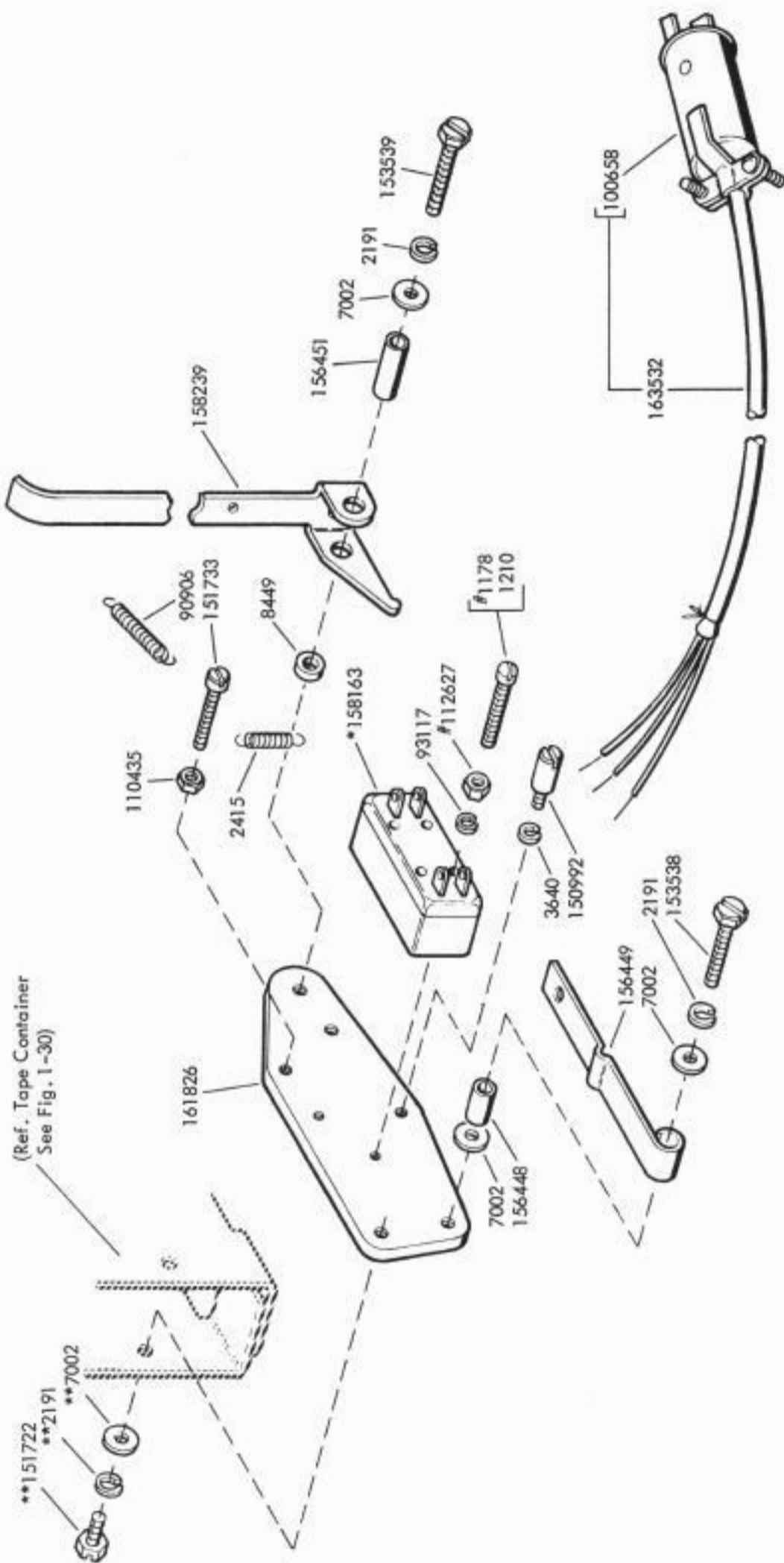


FIGURE 1-31. 163531 TAPE-OUT SWITCH ASSEMBLY

*Part of 163532
**Not Part of 163531 Assembly
#Peculiar to Units Not Equipped
with Tape-Out Switch

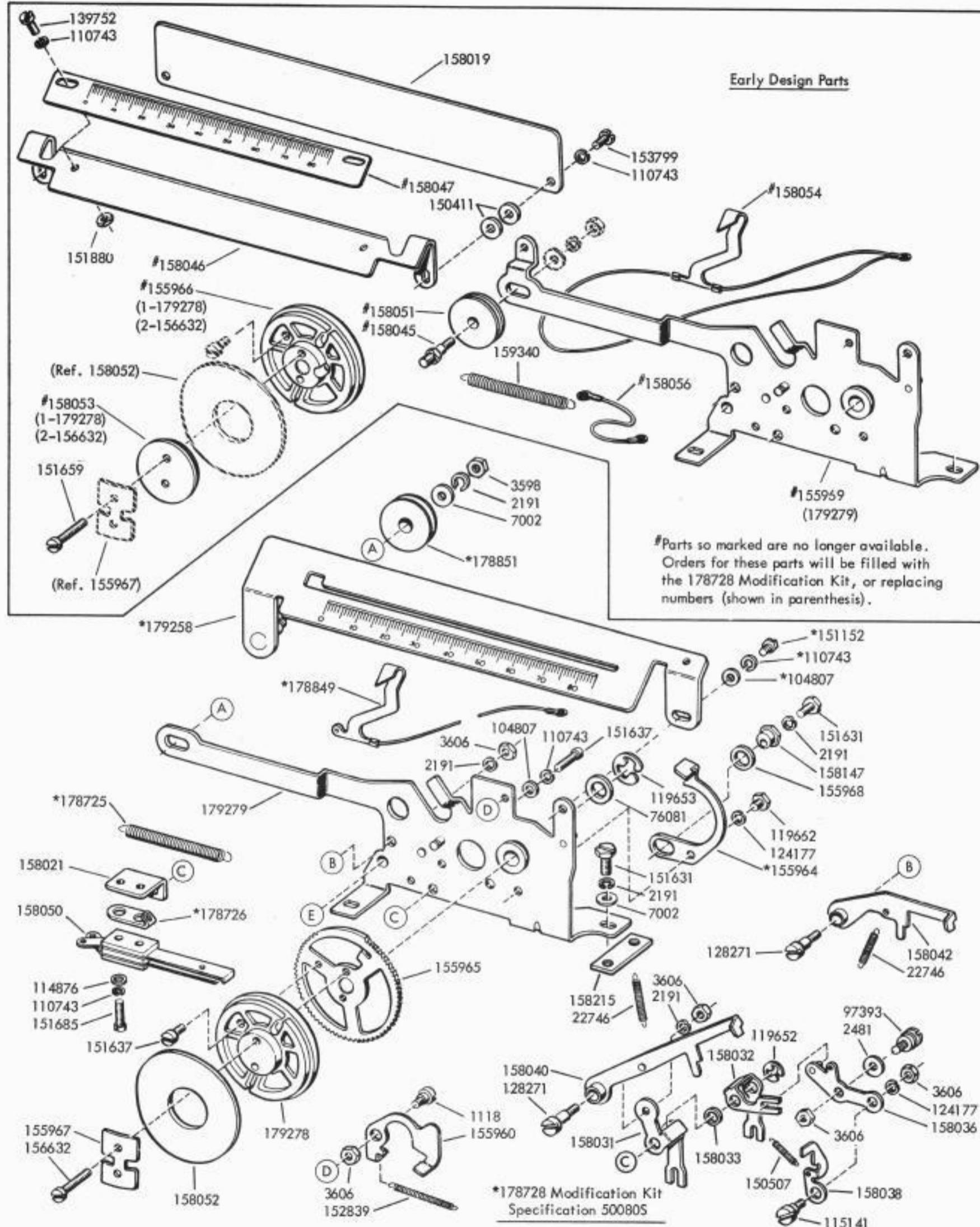


FIGURE 1-32. 155990 CHARACTER COUNTER ASSEMBLY

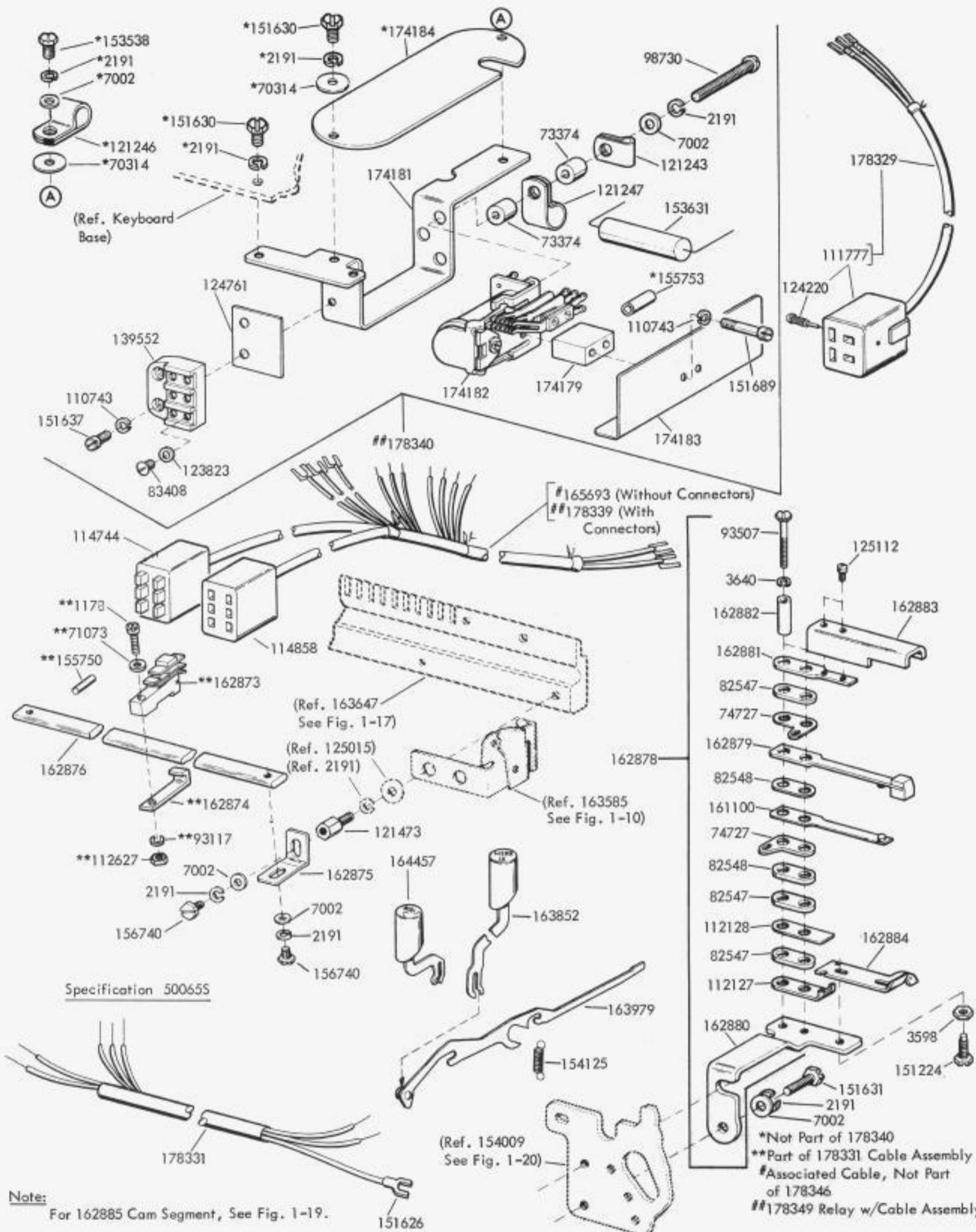
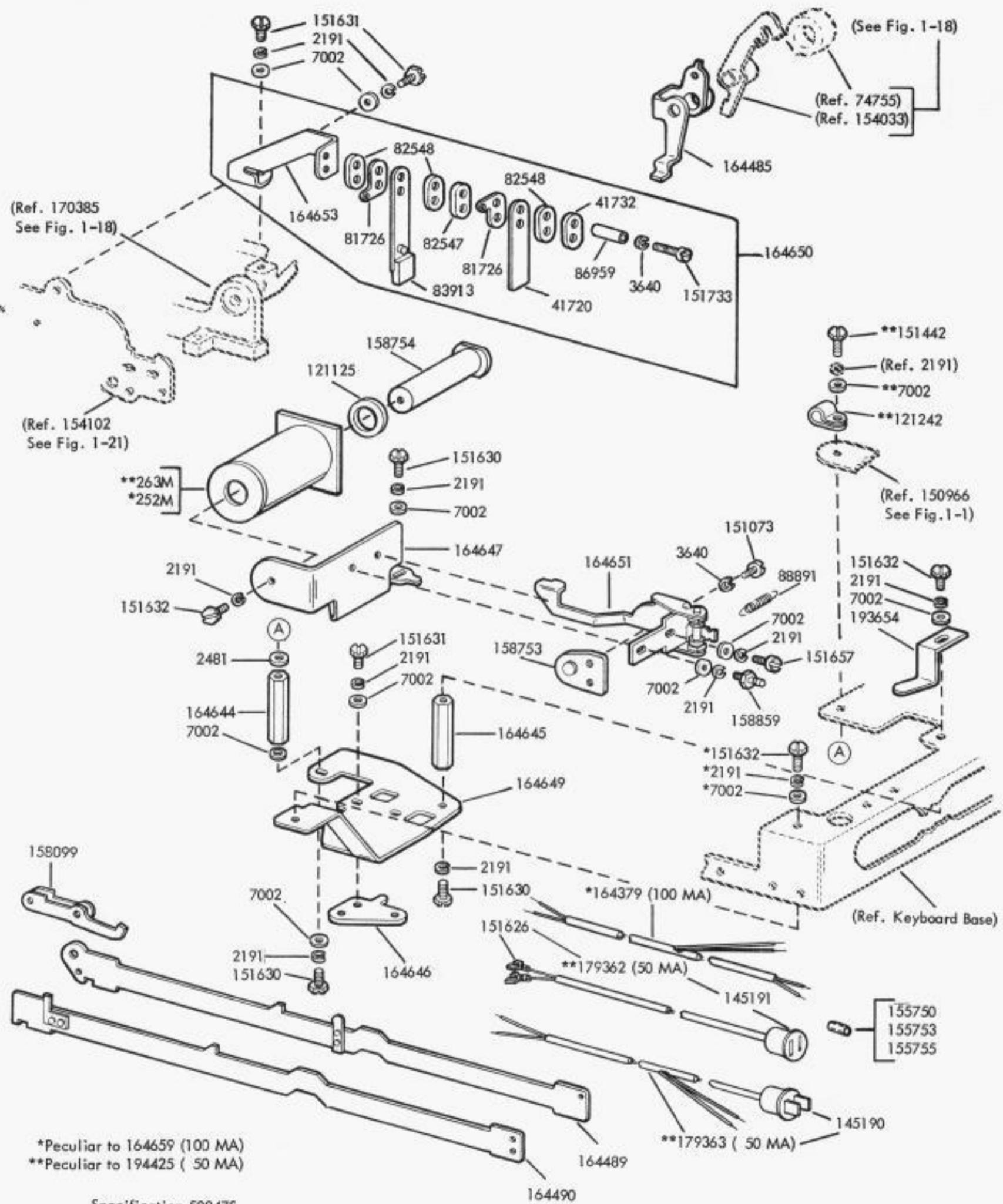
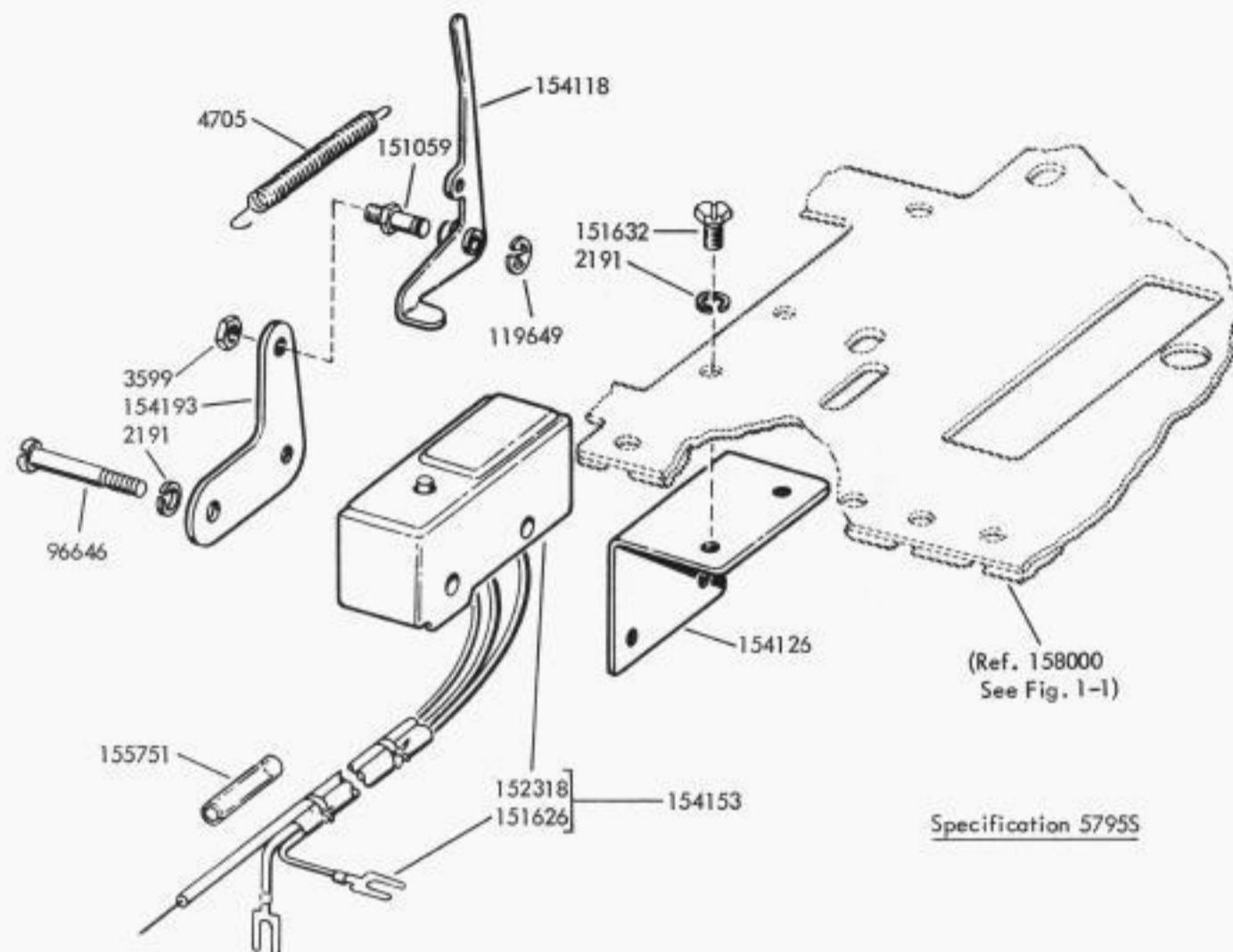


FIGURE 1-33. 178346 MODIFICATION KIT TO EQUIP KEYBOARD WITH ANSWER-BACK CONTROL



Specification 50047S

FIGURE 1-34. 164659 (100 MA) AND 194425 (50 MA) MODIFICATION KITS TO PROVIDE SYNCHRONOUS PULSED TRANSMISSION



**FIGURE 1-35. 154147 MODIFICATION KIT TO PROVIDE LOCAL PAPER FEED-OUT
MOTOR STARTING MECHANISM**

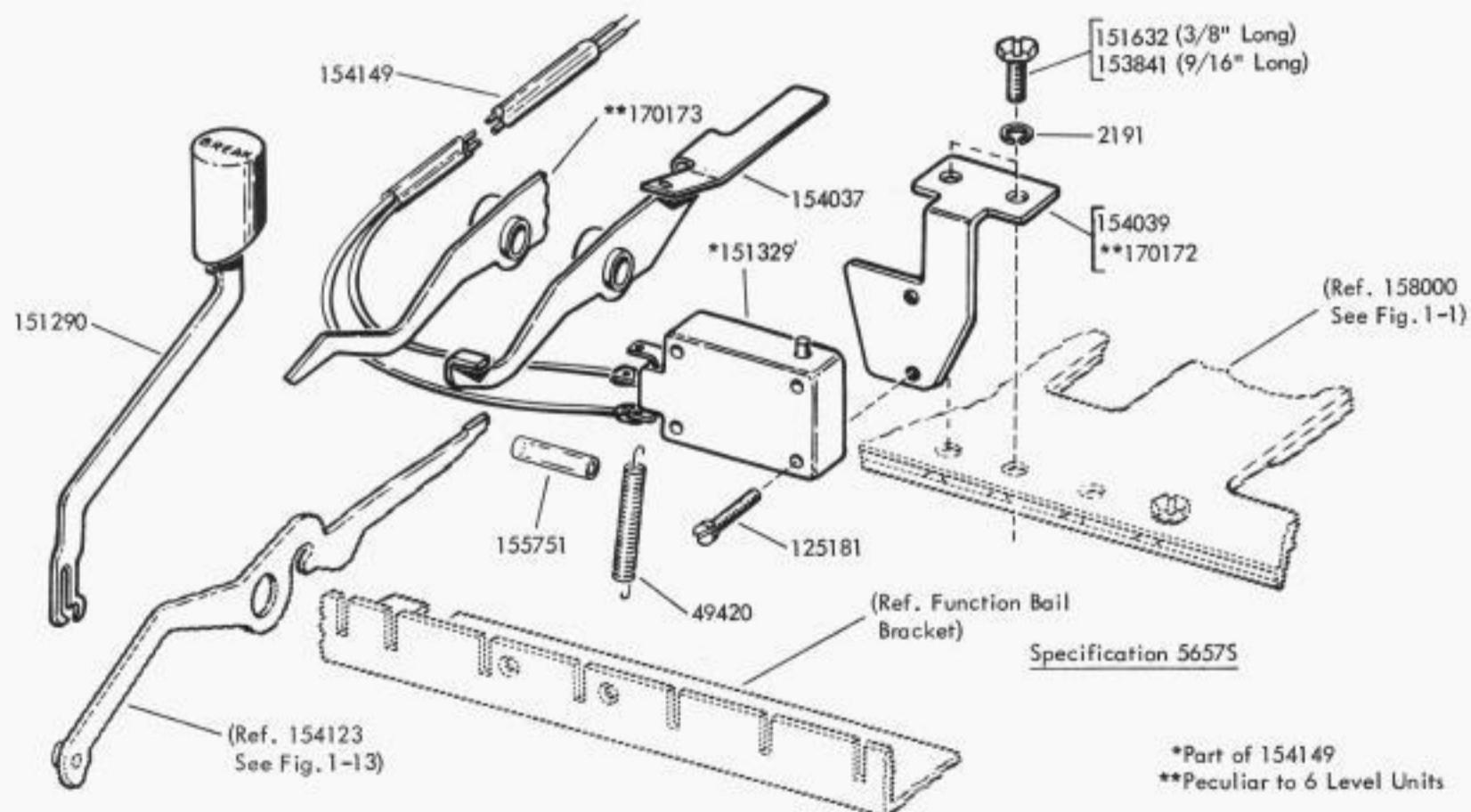
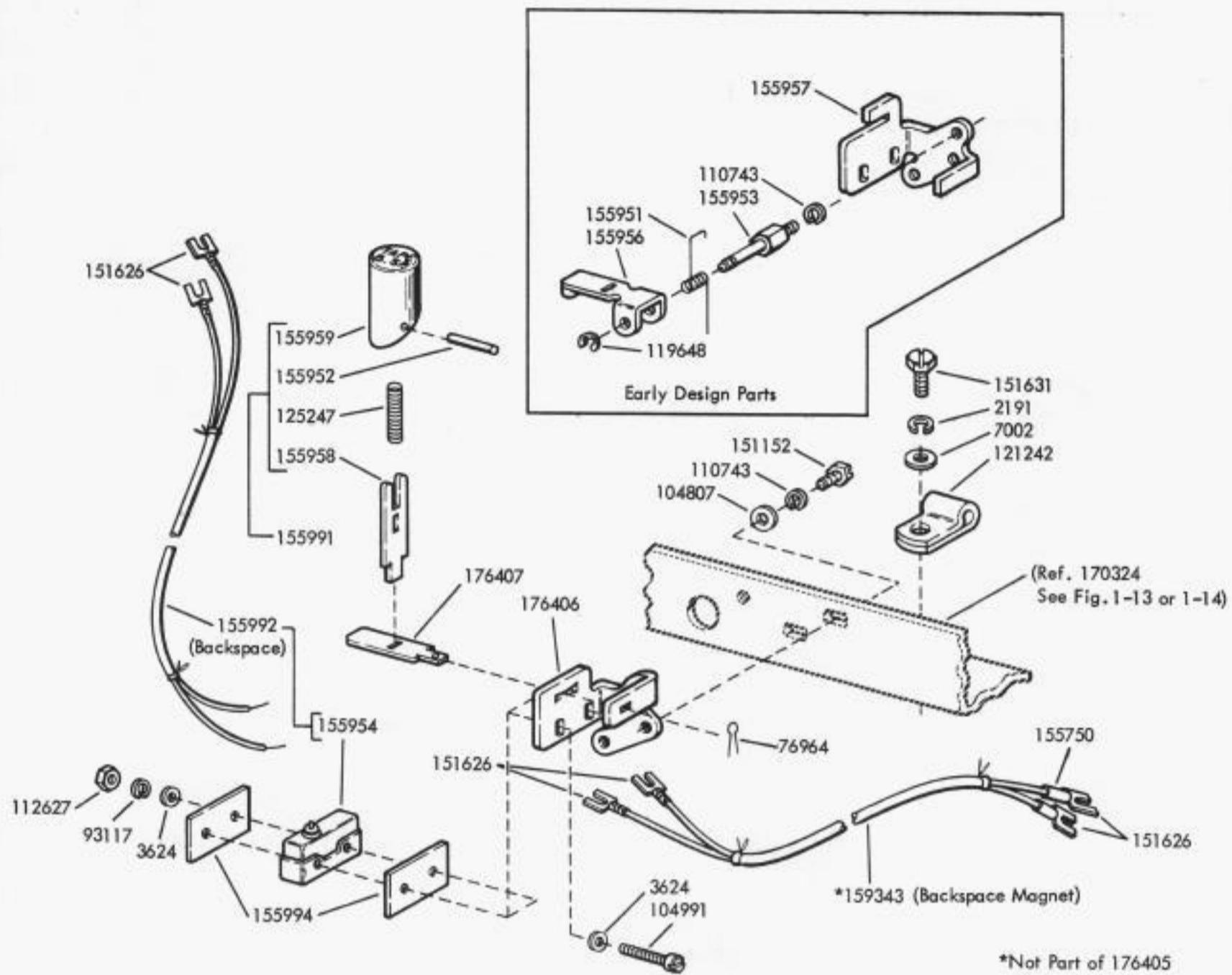


FIGURE 1-36. 154141 MODIFICATION KIT TO PROVIDE ELECTRICAL SIGNAL LINE BREAK MECHANISM



Specification 500885

FIGURE 1-37. 176405 MODIFICATION KIT TO ADD TAPE BACKSPACE BUTTON

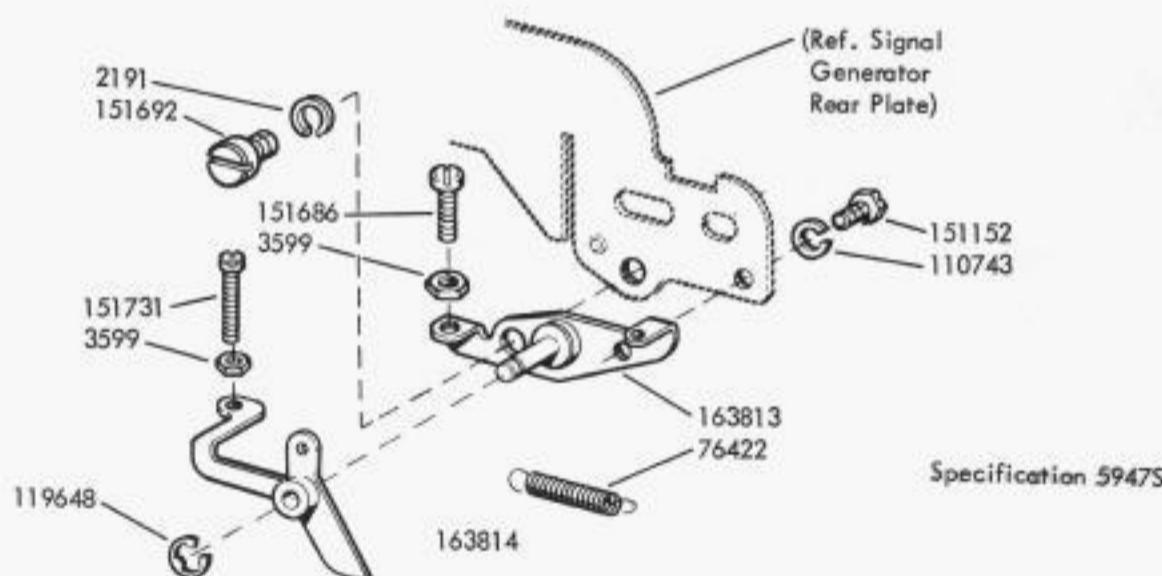
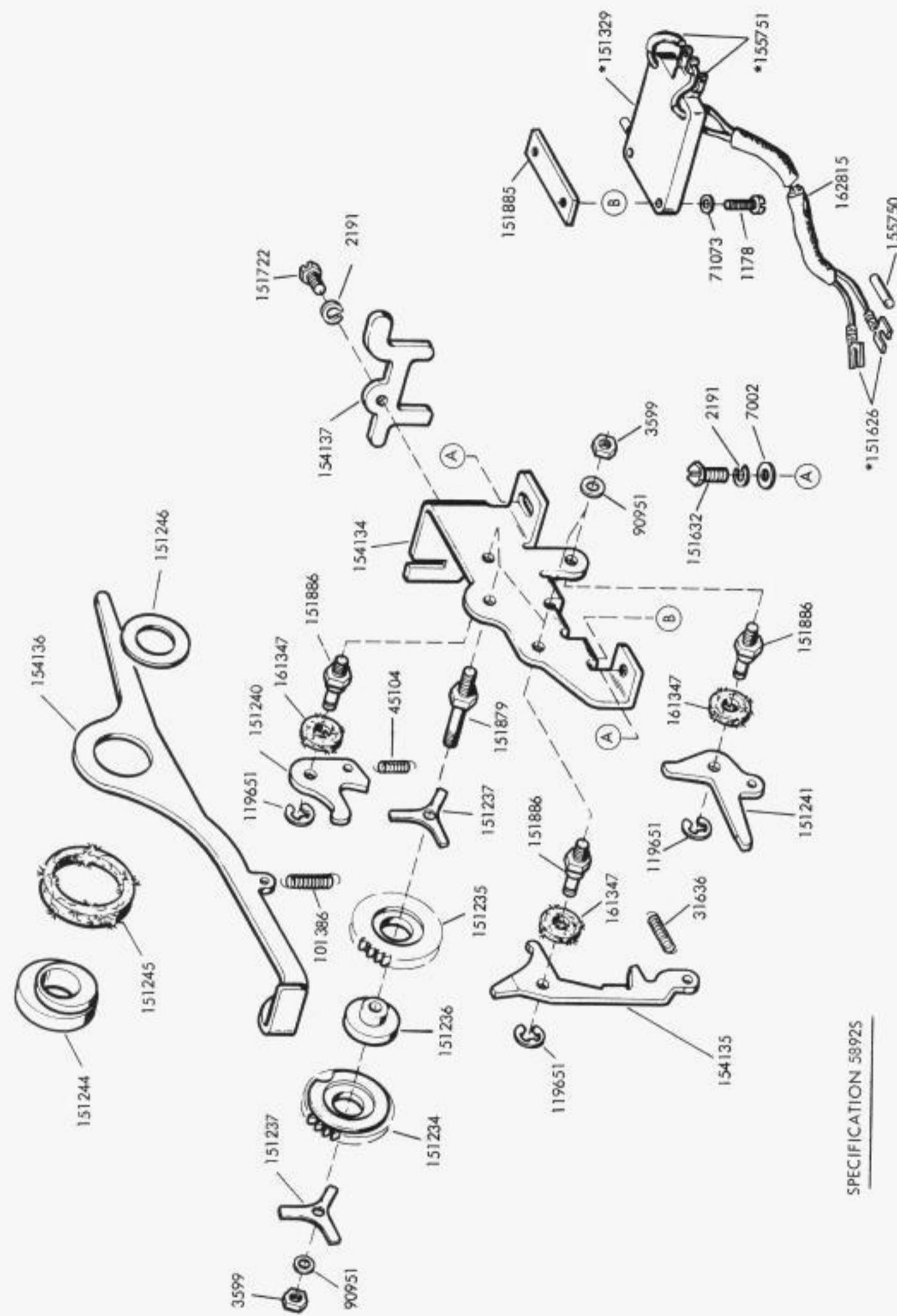
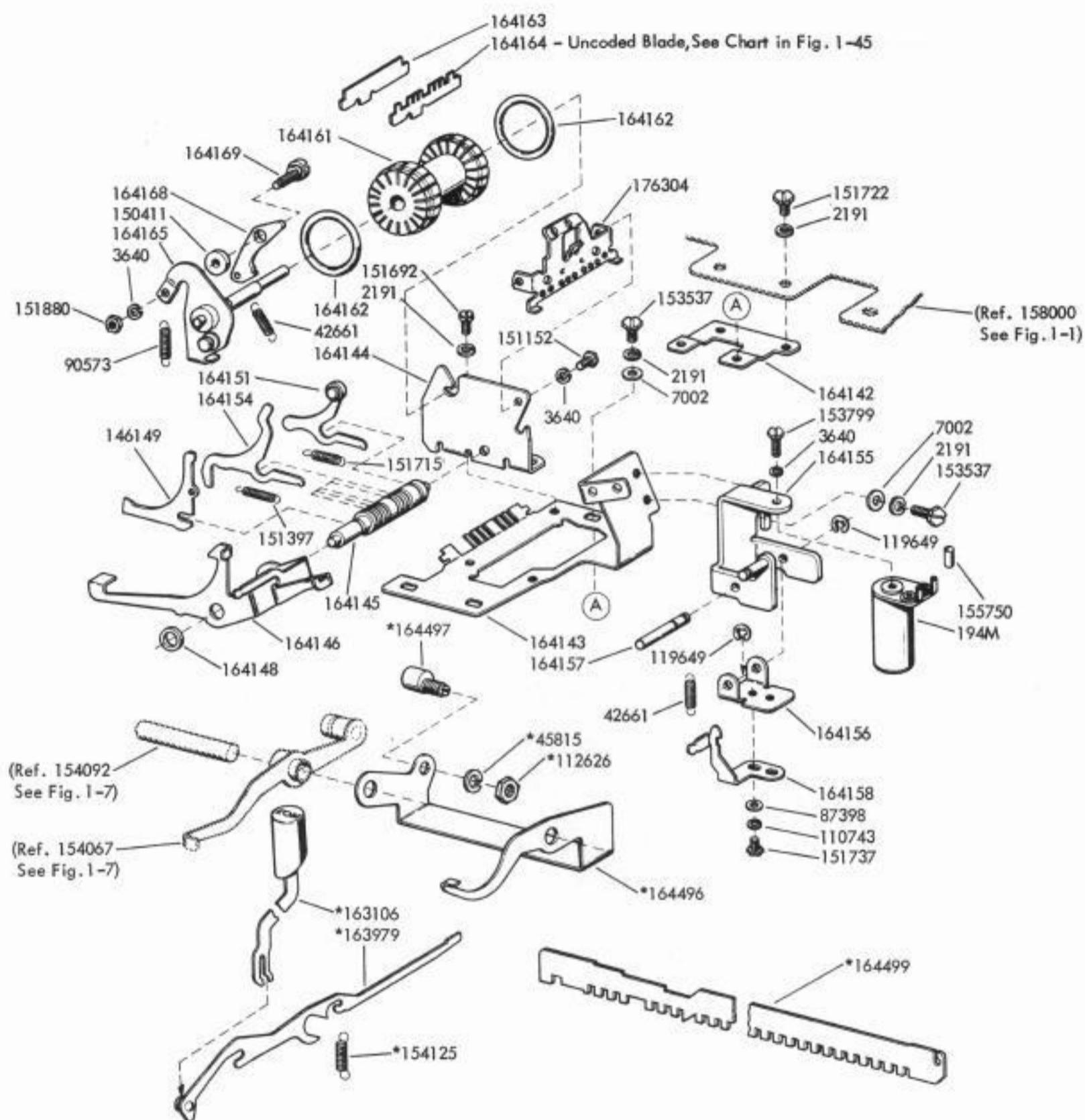


FIGURE 1-38. 163775 MODIFICATION KIT TO PROVIDE REPEAT ON SPACE MECHANISM



SPECIFICATION 58925

FIGURE 1-39. 162731 MODIFICATION KIT TO PROVIDE KEYBOARD WITH TIME DELAY MECHANISM



164502 - Specification 59545
172945 - Specification 500065

*Peculiar to 164502 Only

FIGURE 1-40. 164502 (END OF MESSAGE GENERATOR) AND 172945 (ANSWER-BACK)
MODIFICATION KITS - SEE FIGS. 1-41, 1-42 AND 1-43.

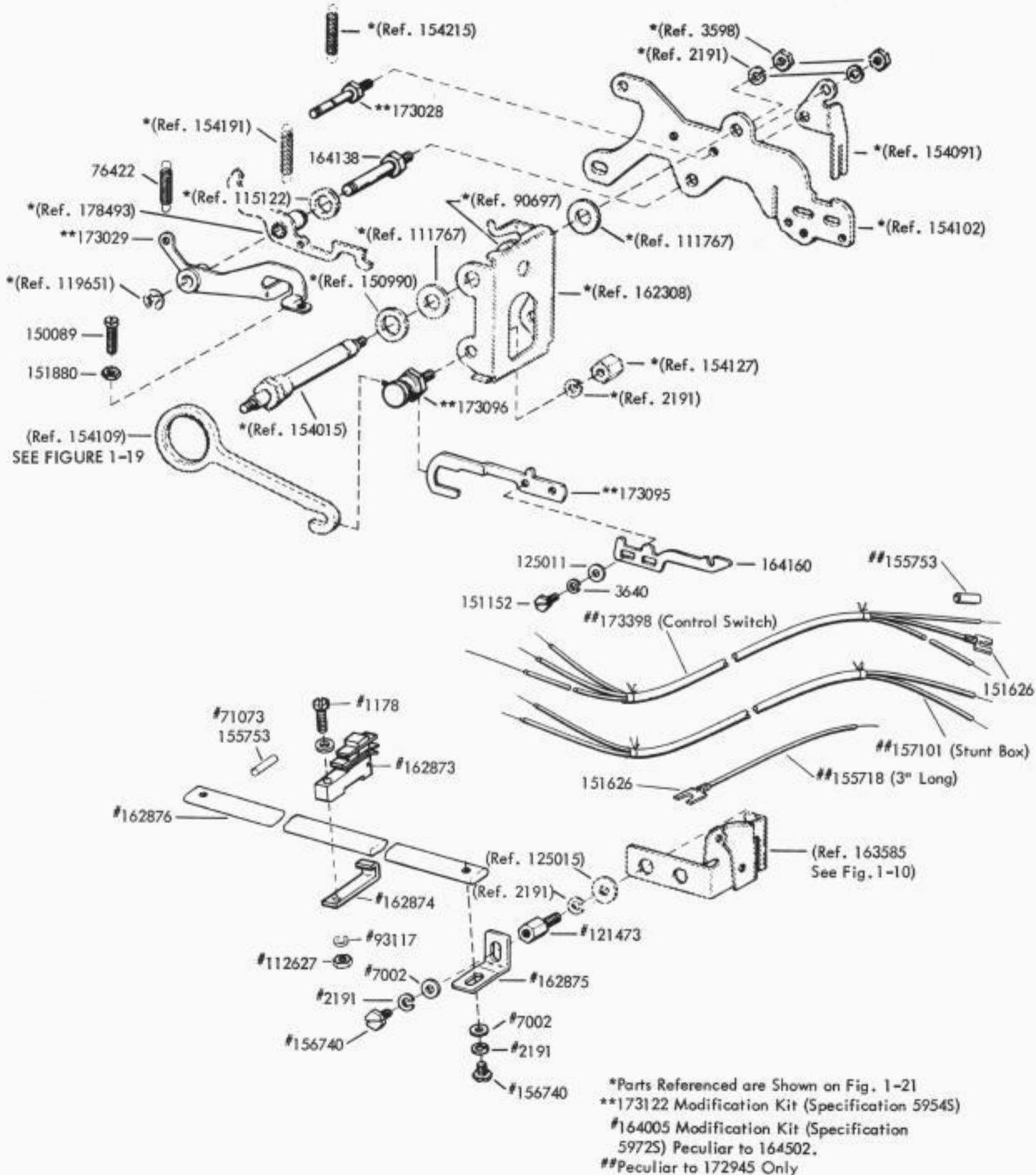


FIGURE 1-41. 164502 (END OF MESSAGE GENERATOR) AND 172945 (ANSWER-BACK)
 MODIFICATION KITS - SEE FIGS. 1-40, 1-42 AND 1-43.

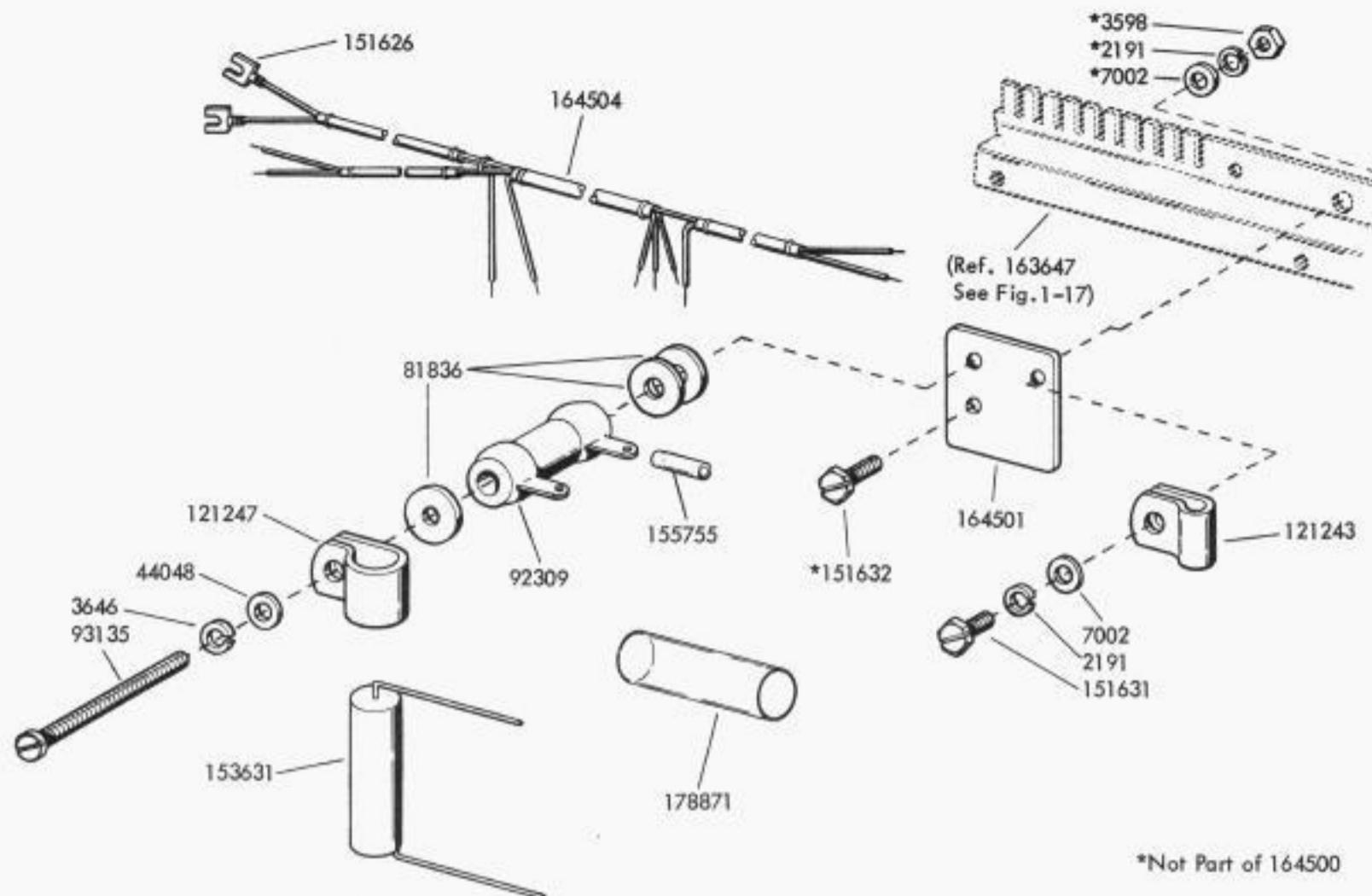


FIGURE 1-42. 164500 RESISTOR ASSEMBLY (PART OF 164502
MODIFICATION KIT - SEE FIGS. 1-40 AND 1-41)

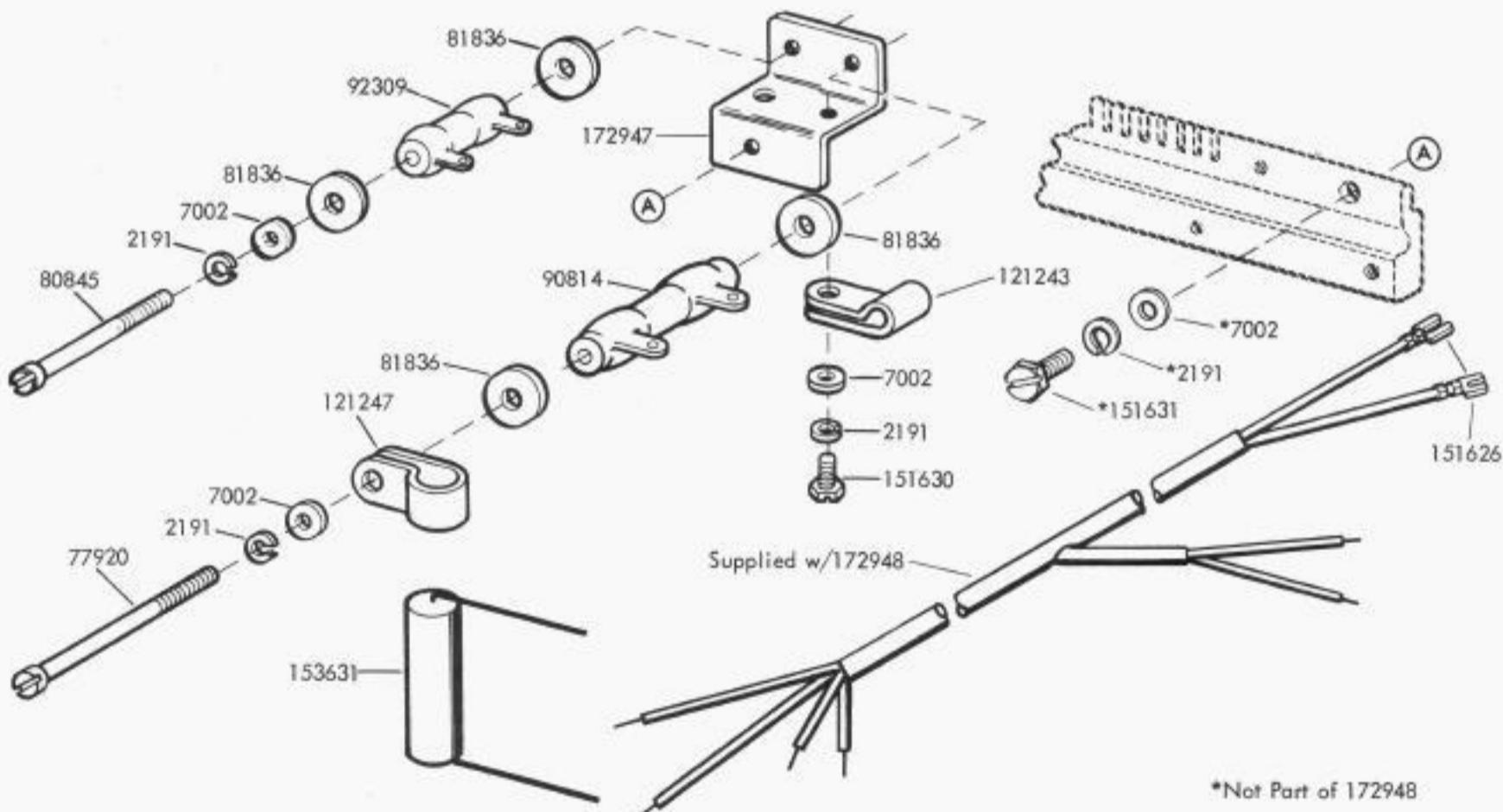


FIGURE 1-43. 172948 RESISTOR ASSEMBLY (PART OF 172945
MODIFICATION KIT - SEE FIGS. 1-40 AND 1-41)

1169B

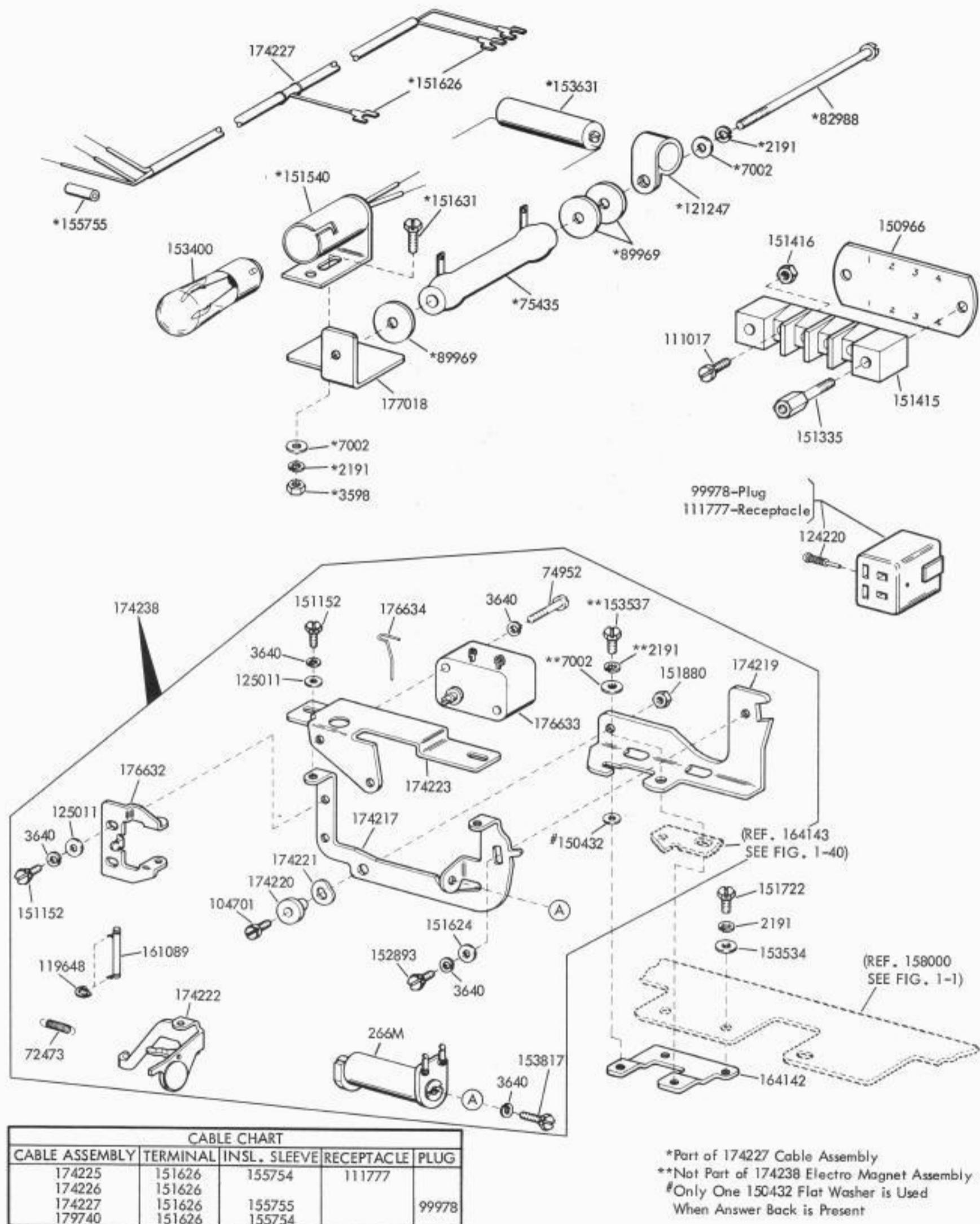
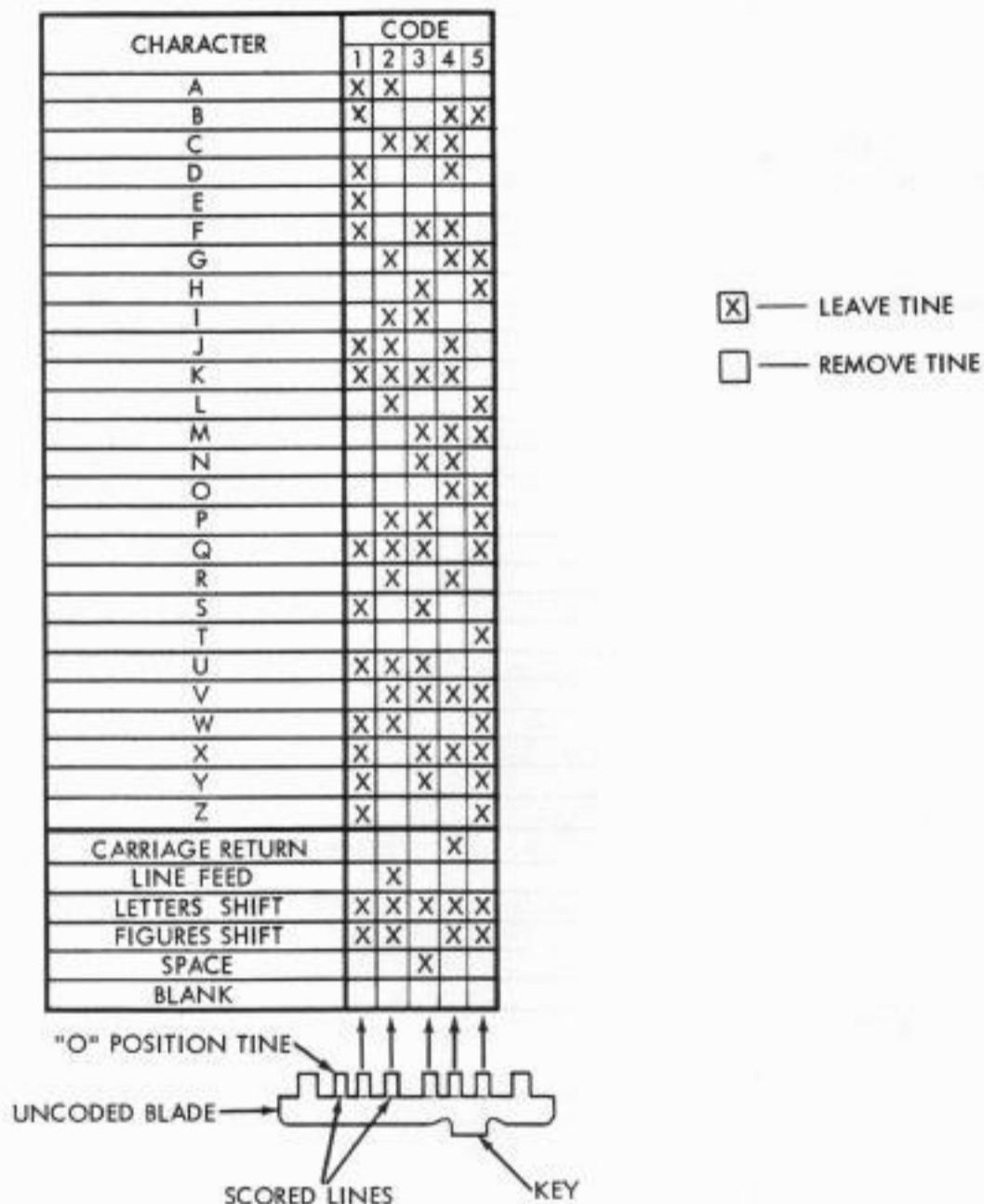


FIGURE 1-44. 164426 MODIFICATION KIT TO ADD HORIZONTAL TAB DISABLER



Coding Instructions for the Code Blades used in the Answer Back Feature on an LAK Keyboard Base.
(See Figure 4-15 for Coding Instructions for the Transmitter Distributor Feature)

FIGURE 1-45. ENCODING THE KEYBOARD ANSWER-BACK DRUM BLADE

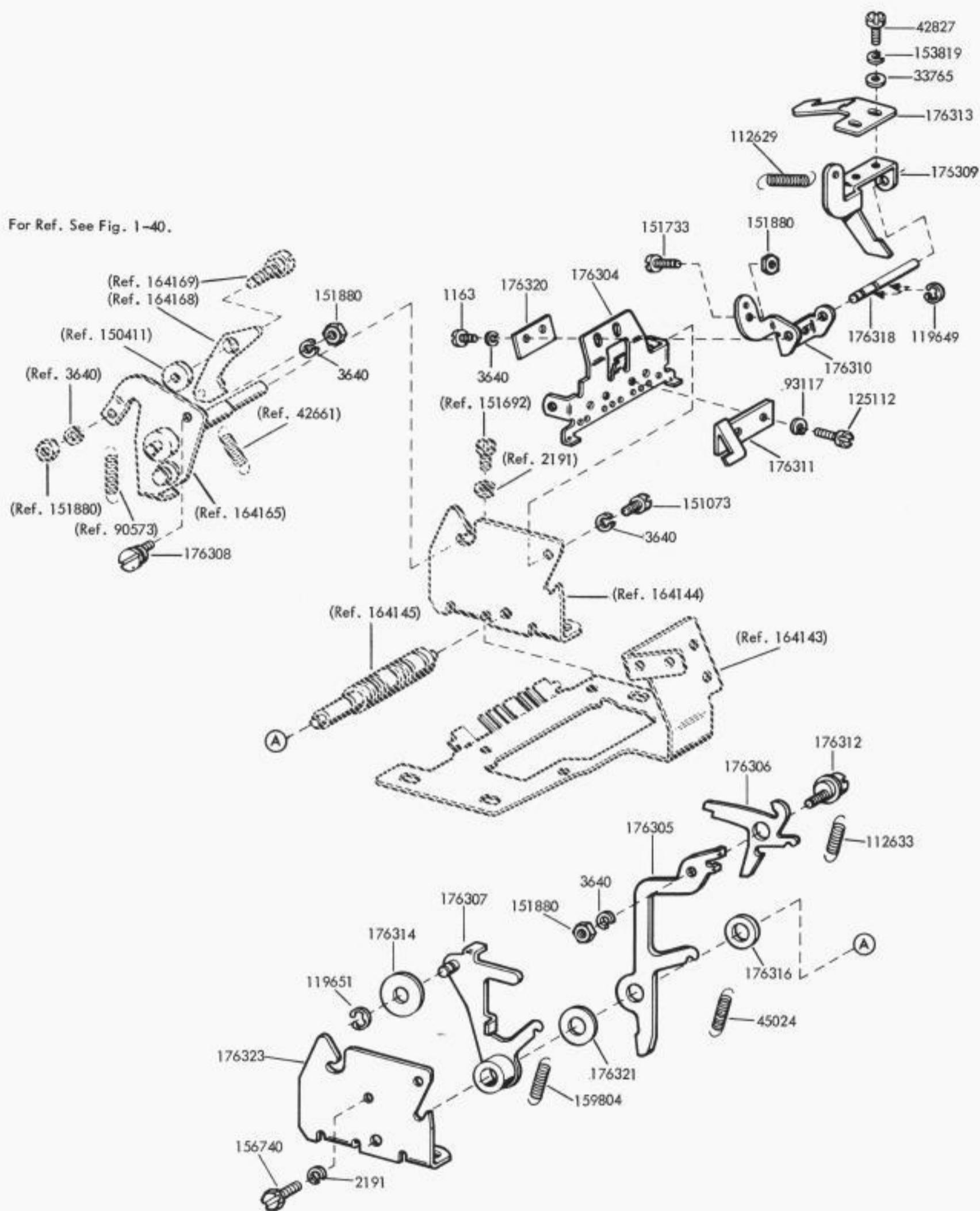


FIGURE 1-46. 176395 MODIFICATION KIT TO PROVIDE LOCK BAR RESET TO ANSWER-BACK

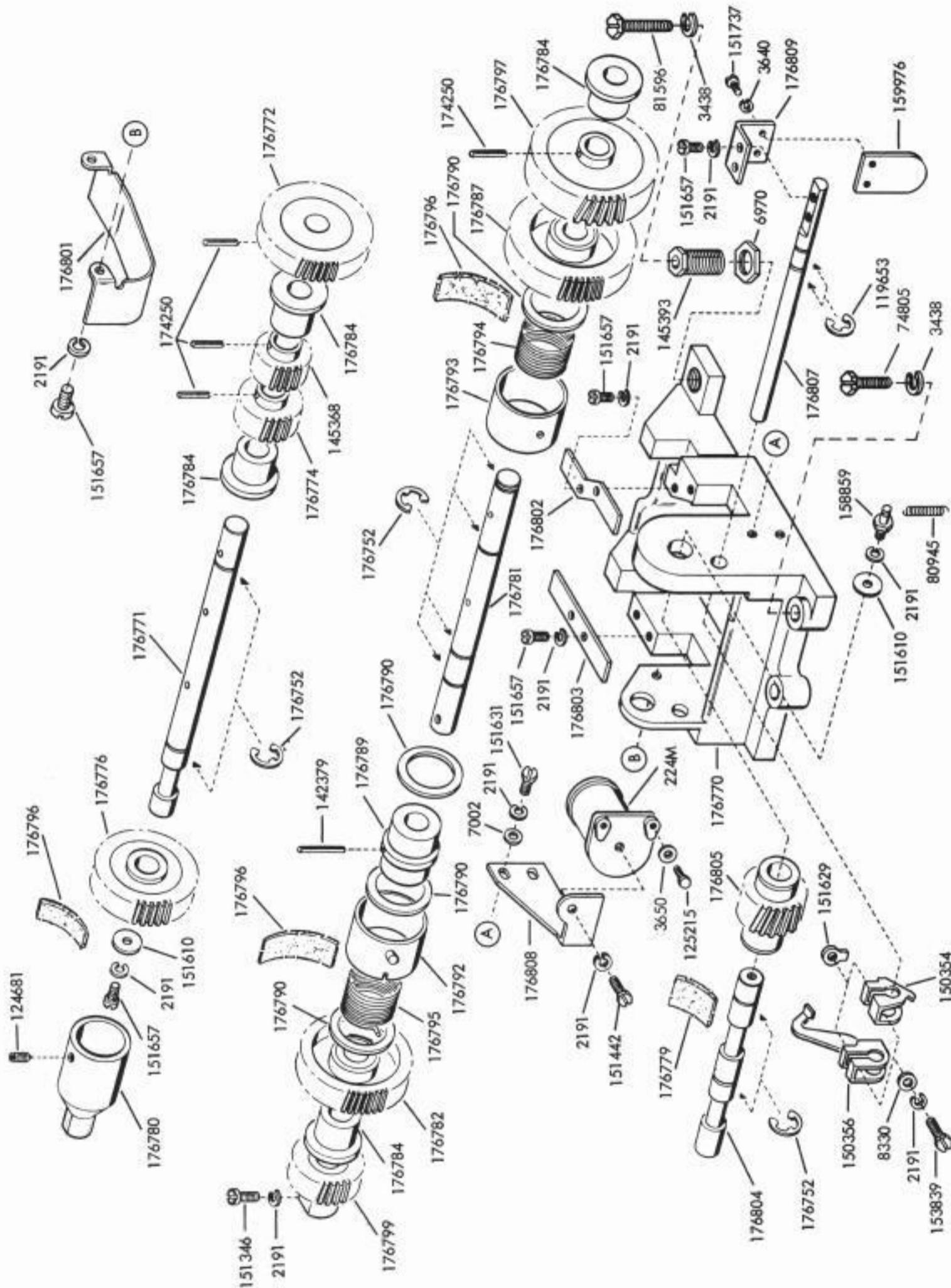
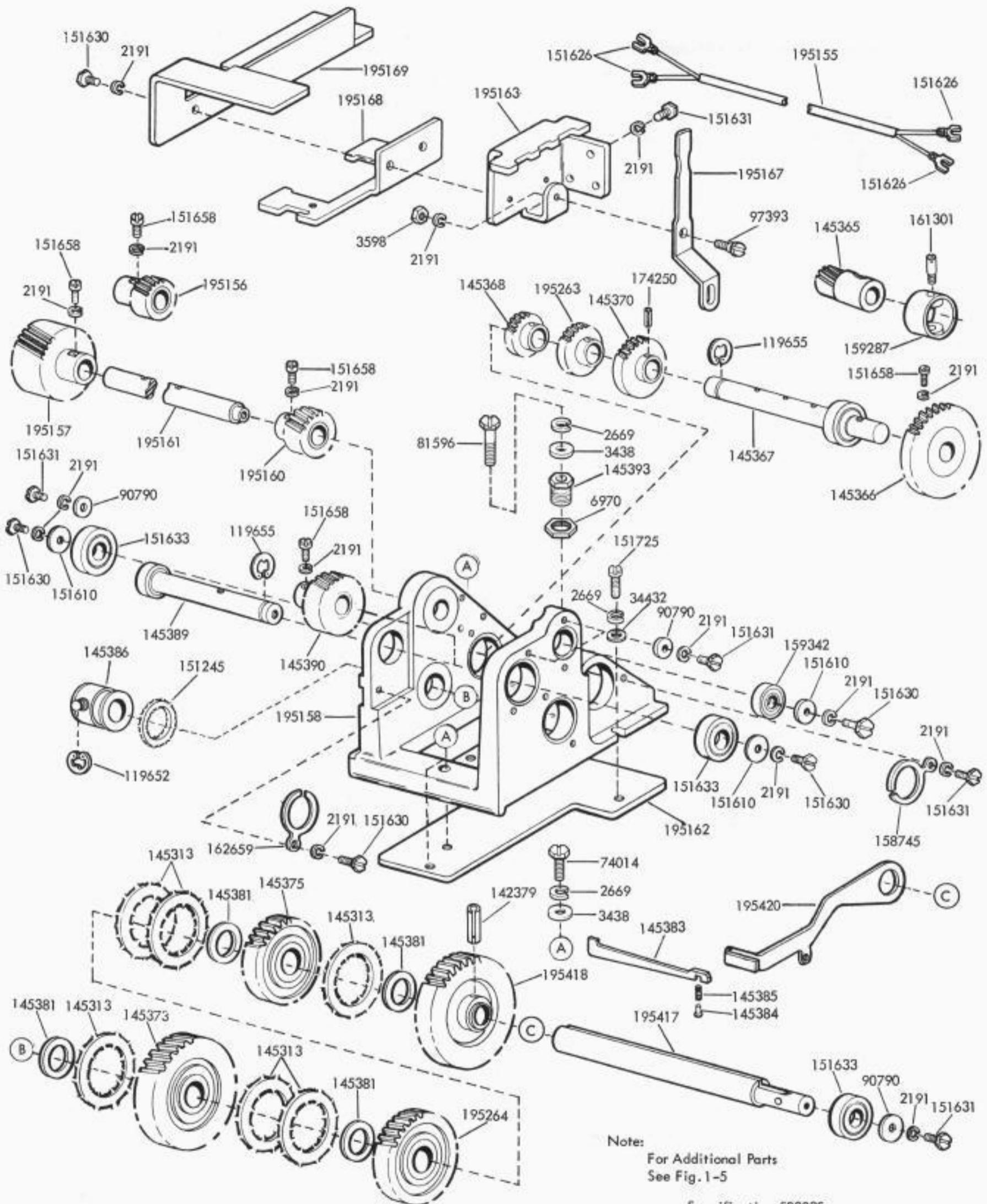


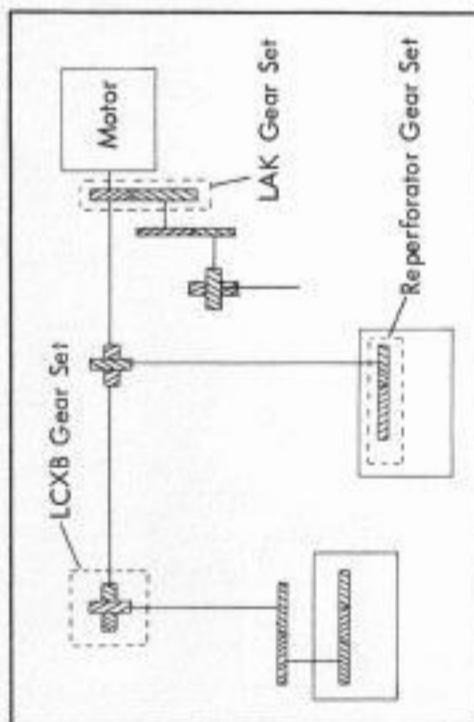
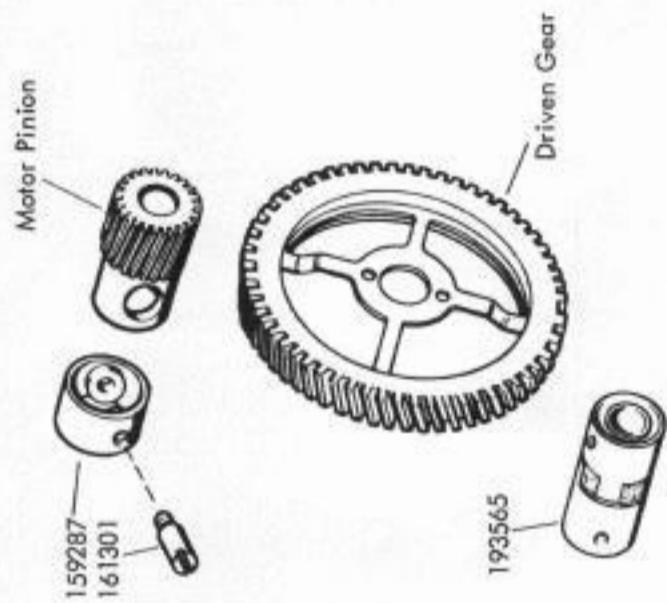
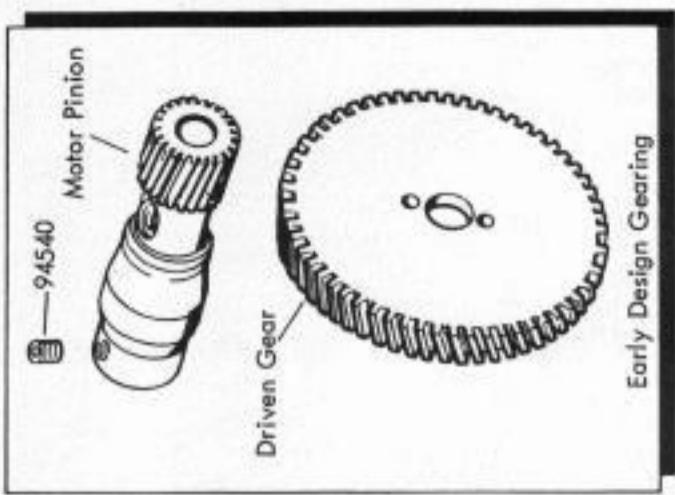
FIGURE 1-47. REMOTE CONTROL SPEED SHIFT GEAR MECHANISM



Note:
For Additional Parts
See Fig. 1-5

Specification 502035

FIGURE 1-48. 195154 MODIFICATION KIT TO ADD THREE SPEED GEAR SHIFT TO KEYBOARD



* Includes keyboard and single TD gear sets only.

** Modification Kit including keyboard and single TD gear sets and the 193565 coupling (required when replacing an early style gear set).

Includes keyboard, single TD base and reperforator gear sets.

Includes keyboard, dual TD base and reperforator gear sets.

WPM/OPM Baud Unit Code	65/390 45.5 7.00	71/428 50 7.00	81/488 56.9 7.00	106/636 74.2 7.00	107/643 75 7.00	60/368 45.5 7.42	67/404 50 7.42	75/460 56.88 7.42	100/600 74.2 110 7.42 11.0	61/364 45.5 7.50	66/400 50 7.50	100/600 75 7.50	88/529 75 8.50	
Keyboard (LAK) Gear Set includes: Isolator Post (2)	173795 163504 173794-14T 163461-18T 173793-100T 159287 161301	198050 198054-21T 198051-17T 198052-97T 163464-104T 159287 161301	198053 163505 198054-21T 163463-24T 198055-29T 159287 161301	161293 194927 159278-14T 159251-13T 159282-93T 194926-81T 159287 161301	194927 161294 159278-14T 159251-13T 159282-93T 194926-81T 159287 161301	161295 173795 159284-20T 159281-17T 173793-100T 159285-84T 159287 161301	173795 163504 163461-18T 163462-11T 163464-104T 159287 161301	163505 170089 163463-24T 163464-104T 170186-119T 159287 161301	170089 170185-25T 170186-119T 159287 161301	163505 170089 163463-24T 163464-104T 170186-119T 159287 161301	163505 170089 163463-24T 163464-104T 170186-119T 159287 161301	163505 170089 163463-24T 163464-104T 170186-119T 159287 161301	163505 170089 163463-24T 163464-104T 170186-119T 159287 161301	163505 170089 163463-24T 163464-104T 170186-119T 159287 161301
TD Single Base (LCXB) Gear Set includes:	159882 155996-13T 155997-60T	161357 161333-10T 161332-42T	198056 198057-19T 155999-34T	159883 155998-12T 155999-34T	163454 163452-20T 163453-56T	158029 158005-9T 158006-44T	161356 161331-11T 161330-49T	158028 158003-12T 158004-47T	178775 178776-11T 178777-56T	178772 178773-20T 178774-60T	178769 178770-23T 178771-46T			
Dual TD Base (LCXB) Gear Set includes:							195146 195144-11T 195145-49T		170293-11T 170297-49T					
Reperforator (LPR or LRPE) Gear Set includes:	173992 173993-14T 173994-40T	163457 163455-20T 163456-52T			163502 163501-30T 163500-52T	163023 163021-14T 163022-40T	195184 195182-20T 195183-52T	163024 163019-21T 163020-48T	163025 163015-28T 163018-49T					
ASR Gear Set (w/Single TD)							*161859 **164583	#194928 **163584	*161860 **163585					
ASR Gear Set (w/Dual TD)							#195147		#170100					
														#170088

FIGURE 1-49. GEAR SETS

Keyboard Bases (LAK) and Associated Cables

Unit	Keyboard Cable	Auxiliary Switch Cable	Wiring Diagram
LAK1	158246	158244	3261WD
-K3	158248	158222	3262WD
LAK4	158249	158224	3302WD
LAK6	160324	—	3347WD
LAK7	160375	160393	3458WD
LAK9	162351	162352	3636WD
LAK10	162571	162572	3673WD
LAK11	163167	158224	3724WD
LAK16	158249	158224	3772WD
LAK17	164082	160483	3767WD
LAK18	164288	164409	3802WD
LAK20	144741	—	4213WD
	144995		
LAK21	173454	174314	4263WD
LAK22	178786	158222	4708WD
LAK23	158249	158224	4321WD
LAK25	158249	158224	3302WD
LAK26	160324	—	3447WD
LAK27	176682	158224	4338WD
LAK28	158249	179621	4748WD
LAK29	165694	162572	4915WD
LAK30	162571	162572	3673WD
LAK31	158249	158224	4927WD
LAK600	170342	—	4176WD
LAK601	170342	—	4176WD
	173222		
	173237		
LAK800	170342	—	3793WD
LAK801	170321	—	3793WD
	170342		

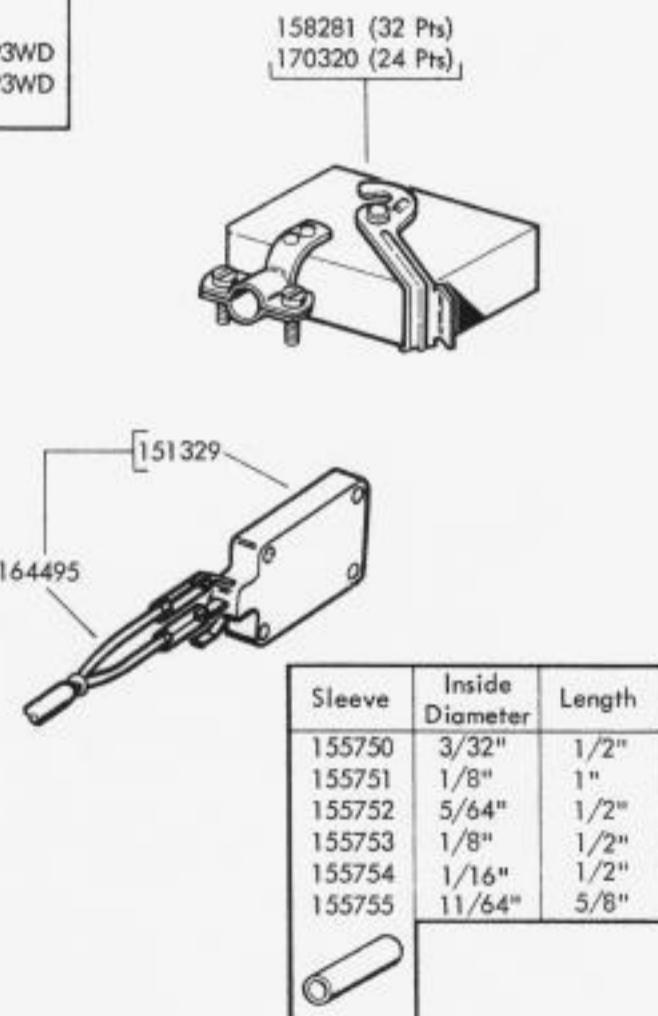
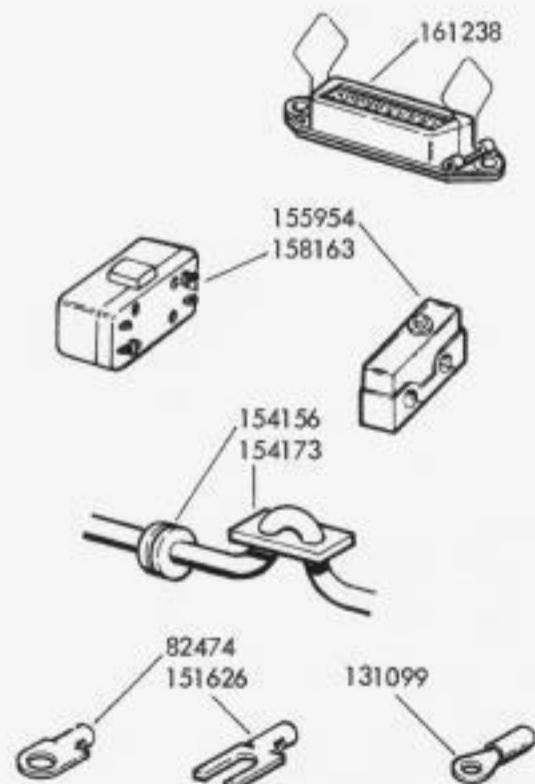
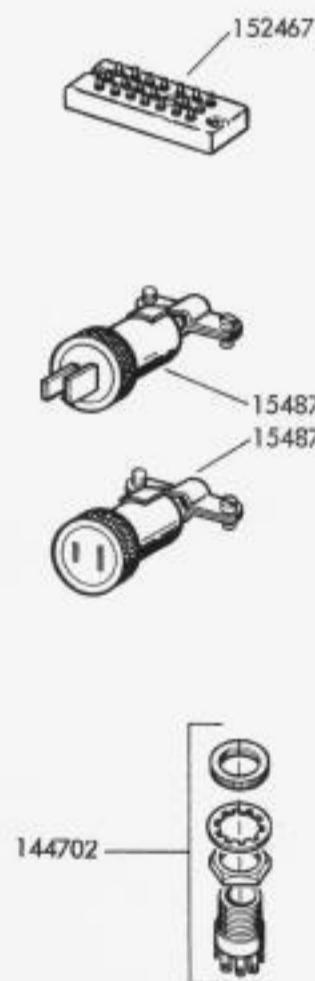


FIGURE 1-50. KEYBOARD CABLES

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252M	Coil, Magnet 1-32	70388	Spring 1-18	93135	Screw (8-32 x 1-3/4 Fil) 1-38
263M	Coil, Magnet 1-32	71073	Washer, Flat 1-31,1-34,1-37	93160	Washer, Flat 1-5
266M	Coil, Magnet 1-39	71858	Washer, Flat 1-23	93191	Screw (4-40 x 5/16 Flat) 1-10
1020	Screw (6-40 x 1/4 Hex) 1-18	72473	Spring 1-39	93507	Screw (4-40 x 3/4 Hex) 1-31
1095	Screw (4-40 x .150 Hex) 1-22	73008	Washer, Flat 1-22	93758	Washer, Felt 1-8
1118	Screw, Shoulder (6-40) 1-30	73035	Spring 1-8	94540	Screw, Set (10-24) 1-5,1-44
1163	Screw (4-40 x 3/16 Fil) 1-41	73374	Spacer 1-31	96212BK	Jumper (4" Black) 1-24
1164	Screw (2-56 x 3/16 Fil) 1-25	73776	Screw (3/16-32 x 1-3/16 Fil) 1-4	96646	Screw (6-40 x 1-3/64 Fil) 1-33
1178	Screw (2-56 x 7/16 Fil) 1-25,1-29,1-31,1-35,1-37	74014	Screw (10-32 x 3/4 Hex) 1-2,1-43	97393	Screw, Shoulder (6-40) 1-30,1-43
1210	Screw (2-56 x 5/8 Fil) 1-23,1-29	74727	Terminal 1-26,1-31	98726	Screw (3-48 x 1/4 Fil) 1-3
1248	Screw (6-40 x 1/2 Flat) 1-10	74728	Terminal 1-7,1-27	98730	Screw (6-32 x 1-1/4 Fil) 1-31
1274	Screw (6-40 x 1-1/8 Fil) 1-9	74755	Washer, Felt 1-16	99978	Connector, Plug (4 Pt) 1-39
1293	Screw (4-40 x 1/8 Fil) 1-20,1-21	74805	Screw (10-32 x 3/4 Hex) 1-16,1-42	100658	Connector, Plug (2 Pt) 1-29
2191	Washer, Lock 1-2 to 1-9,1-11 to 1-14,1-16,1-18 to 1-24,1-26,1-28 to 1-39,1-41 to 1-43	74807	Nut (10-32 Hex) 1-22	101386	Spring 1-35
2415	Spring 1-12,1-13,1-29	74952	Screw (4-40 x 5/8 Fil) 1-39	102057	Screw, Shoulder (4-40) 1-23
2422	Washer, Lock 1-23	74966	Bushing 1-26	104564	Washer, Flat 1-6
2481	Washer, Flat 1-30,1-32	75435	Resistor (600 Ohm) 1-39	104701	Screw (4-40 x 9/32 Fil) 1-39
2669	Washer, Lock 1-2 to 1-6,1-16,1-43	76081	Washer, Lock 1-12,1-13,1-30	104710	Ball, Lock 1-15
3438	Washer, Flat 1-2,1-3,1-4,1-42,1-43	76099	Washer, Flat 1-16	104807	Washer, Flat 1-30,1-34
3598	Nut (6-40 Hex) 1-2,1-4,1-8,1-9,1-13 to 1-16,1-18,1-19,1-26,1-30,1-31,1-38,1-39,1-43	76379	Spring 1-3	104827	Bearing, Ball 1-4
3599	Nut (4-40 Hex) 1-6,1-18,1-20,1-21,1-23,1-33,1-34,1-35	76422	Spring 1-34,1-37	104991	Screw (2-56 x 1/2 Fil) 1-34
3606	Nut (6-40 Hex) 1-19,1-23,1-26,1-30	76964	Pin, Cotter 1-34	108370	Washer, Felt 1-18
3624	Washer, Flat 1-34	77039	Bushing, Contact Insulating 1-7	109356	Washer, Flat 1-6
3639	Washer, Lock 1-2,1-5	77920	Screw (6-40 x 1-15/16 Fil) 1-38	110435	Nut (4-40 Hex) 1-29
3640	Washer, Lock 1-6,1-15,1-19 to 1-23,1-26,1-27,1-29,1-31,1-32,1-36,1-37,1-39,1-41,1-42	77999	Resistor (500 Ohm) 1-3	110437	Spring 1-12
3646	Washer, Lock 1-38	78533	Spring 1-19	110743	Washer, Lock 1-5,1-7,1-15 to 1-18,1-20 to 1-22,1-25,1-30,1-31,1-34,1-36
3650	Washer, Flat 1-42	80402	Screw (4-40 x 15/32 Fil) 1-6		
3870	Spring 1-2,1-16	80581	Spring 1-18,1-22		
4702	Spring 1-16	80755	Bushing 1-27	111017	Screw (6-40 x 5/16 Fil) 1-2,1-3,1-39
4705	Spring 1-33	80845	Screw (10-32 x 1-7/8 Fil) 1-38	111343	Clamp 1-15
6970	Nut (3/8-32 Hex) 1-4,1-42,1-43	80945	Spring 1-42	111767	Washer, Flat 1-19
7002	Washer, Flat 1-2,1-3,1-7,1-8,1-9,1-11 to 1-15,1-20 to 1-24,1-26,1-28 to 1-32,1-34 to 1-39,1-42	81596	Screw (10-32 x 1-3/8 Hex) 1-42,1-43	111777	Connector, Receptacle (4 Pt) 1-31,1-39
7603	Spring 1-19,1-22	81726	Terminal, Contact 1-32	112127	Follower 1-26,1-31
8330	Washer, Flat 1-2,1-4,1-9,1-23,1-42	81731	Spring 1-8	112128	Retainer 1-26,1-31
8449	Spacer 1-19,1-29	81774	Washer, Flat 1-11	112498	Screw (6-40 x 3/4 Flat) 1-10
22746	Spring 1-30	81836	Washer, Flat 1-38	112626	Nut (10-32 Hex) 1-4,1-16,1-36
31636	Spring 1-35	82474	Terminal 1-45	112627	Nut (2-56 Hex) 1-29,1-31,1-34,1-37
33765	Washer, Flat 1-41	82547	Insulator 1-7,1-26,1-31,1-32	112629	Spring 1-41
34432	Washer, Flat 1-43	82548	Insulator 1-7,1-26,1-27,1-31,1-32	112630	Spring 1-2
35826	Washer, Flat 1-4	82860	Spring 1-8	112631	Spring 1-13
36318	Washer, Flat 1-19	82988	Screw (6-40 x 2-1/2 Rd) 1-39	112633	Spring W/Wick 1-41
36358	Spring 1-13	83408	Screw (4-40 x 3/16 Rd) 1-31	114478	Nut (15/32-32 Hex) 1-10
41385	Spring 1-23	83814	Washer, Flat 1-24	114744	Plug (6 Pt) 1-31
41675	Washer, Flat 1-23	83913	Spring, Contact 1-32	114858	Socket (6 Pt) 1-31
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41732	Plate, Clamp 1-7,1-23,1-27,1-32	86742	Nut (4-40 Hex) 1-5,1-19	115122	Washer, Felt 1-16,1-19
42661	Spring 1-36	86772	Screw, Eccentric Shoulder (6-40) 1-13	115141	Screw, Shoulder (6-40) 1-30
42823	Washer, Flat 1-17,1-22	86774	Screw, Shoulder (6-40) 1-2,1-3	116698	Lamp (6 Volt) 1-10
42827	Screw (3-48 x 1/4 Fil) 1-41	86835	Spring 1-2	117416	Post (4-40) 1-16
44048	Washer, Flat 1-38	86959	Bushing, Insulating 1-32	117535	Washer, Flat 1-4,1-5
45024	Spring 1-41	87398	Washer, Flat 1-36	117541	Washer, Flat 1-22
45104	Spring 1-35	88891	Spring 1-32	117608	Nut, Speed (3/16) 1-9
45815	Washer, Lock 1-22,1-36	89969	Washer, Flat 1-39	118211	Resistor (10,000 Ohm) 1-10
49420	Spring 1-7,1-12,1-13,1-33	90573	Spring 1-22,1-36	118659	Switch, Toggle 1-10
55063	Spring 1-12	90679	Washer, Felt 1-19	119648	Ring, Retaining (.073 ID) 1-3,1-14,1-18,1-34,1-39
		90790	Washer, Flat 1-43	119649	Ring, Retaining (.094 ID) 1-3,1-12,1-22,1-23,1-33,1-36,1-41
		90791	Washer, Lock 1-20	119650	Ring, Retaining (.100 ID) 1-12
		90814	Resistor (1,000 Ohm) 1-38	119651	Ring, Retaining (.114 ID) 1-2,1-8,1-9,1-18,1-19,1-22,1-35,1-41
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119662	Screw (6-40 x 5/32 Hex) 1-30	144736	Switch, Keyboard (EOA) 1-25	150241	Spring 1-17
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121125	Washer, Spring 1-32	144740	Switch, Keyboard (Tape B. Sp.) 1-25	150432	Washer, Flat 1-39
121242	Clamp, Cable (1/8" ID) 1-23,1-32, 1-34	144741	Cable Assembly, Keyboard 1-10, 1-45	150507	Spring 1-30
121243	Clamp, Cable (3/16" ID) 1-31,1-38	144743	Plate, Keytop Guide 1-9	150923	Washer, Felt 1-3,1-18,1-19
121244	Clamp, Cable (1/4" ID) 1-2,1-14	144744	Cable Assembly 1-26	150932	Bushing, Shoulder 1-8
121246	Clamp, Cable (3/8" ID) 1-2,1-31	144745	Bracket, Front 1-12	150966	Insulator 1-2,1-39
121247	Clamp, Cable (7/16" ID) 1-31, 1-38,1-39	144749	Bracket Assembly 1-6	150990	Washer, Felt 1-19
121473	Post (6-40) 1-31,1-37	144750	Housing W/Bearing 1-3	150991	Washer, Felt 1-12,1-13,1-16
123823	Washer, Flat 1-31	144753	Shaft W/Bearings and Gear 1-6	150992	Stud (4-40) 1-29
124177	Washer, Lock 1-30	144754	Plate, Nut 1-3	151036	Screw, Shoulder (4-40) 1-19
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124681	Screw, Set (6-40) 1-42	144759	Spacer 1-4	151073	Screw (4-40 x 5/32 Fil) 1-32,1-41
124761	Plate, Insulating 1-31	144760	Spacer 1-4	151080	Washer, Flat 1-5,1-15
125011	Washer, Flat 1-15,1-16,1-19,1-21, 1-23,1-26,1-27,1-37,1-39	144761	Shaft 1-4	151103	Spring 1-18,1-22
125015	Washer, Flat 1-2,1-4,1-5,1-6,1-9, 1-19	144763	Plate, Nut 1-3	151113	Strip 1-2
125112	Screw (2-56x1/8 Fil) 1-26,1-31, 1-41	144764	Base 1-3	151118	Plate, Spacing 1-2
125126	Screw (2-56 x 9/32 Fil) 1-20,1-21	144767	Plate W/Bracket, Bearing 1-4	151146	Spacer 1-4
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125241	Spring 1-22	144771	Follower, Cam 1-26	151180	Toggle Assembly 1-20,1-21
125247	Spring 1-34	144772	Contact Assembly 1-26	151182	Link, Toggle 1-20,1-21
125250	Spring 1-18	144774	Bar, Code - Figs 1-12	151182	Washer, Insulating 1-20, 1-21
125253	Spring 1-13	144871	Pin, Solenoid Plunger 1-3	151223	Screw, Shoulder (4-40) 1-9
128271	Screw, Shoulder (6-40) 1-30	144990	Bar, Code - Ltrs. 1-12	151224	Screw, Pilot (6-40) 1-9,1-26,1-31
130683	Washer, Lock 1-23	144991	Bracket, Contact 1-3	151228	Bracket W/Bearing 1-4
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170101	Bar, Code - #1 (6 Level) 1-13	170400	Plate, Keytop Guide 1-9	174411	Insulator 1-21
170102	Bar, Code - #2 (6 Level) 1-13	170401	Frame, Front 1-9	174412	Spacer 1-21
170103	Bar, Code - #3 (6 Level) 1-13	170403	Plate, Right 1-10	174413	Terminal 1-21
170104	Bar, Code - #4 (6 Level) 1-13	170404	Plate, Left 1-10	174414	Bushing 1-21
170105	Bar, Code - #5 (6 Level) 1-13	170405	Panel Assembly, Right 1-10	174415	Cover, Contact Box 1-21
170106	Bar, Code - #0 (6 Level) 1-13	170406	Bracket, Space Bar - (Left) 1-9	174416	Box, Contact 1-21
170172	Bracket 1-33	170407	Bracket, Space Bar - (Right) 1-9	174421	Filter, R.F. 1-21
170173	Lever W/Hub 1-33	170409	Bail, Space Bar 1-9	174422	Filter, R.F. 1-21
170185	Pinion (25 T) 1-44	170410	Plate, Nut 1-2	174491	Modification Kit To Provide R.F. Filter Assembly For Signal Generator Contacts 1-20
170186	Gear (119 T) 1-44	170412	Bracket, Switch Mounting 1-7		
170189	Pinion (15 T) 1-44	170413	Contact Assembly 1-7		
170190	Gear (51 T) 1-44	170414	Lever, Code Bar (Space) 1-13		
170293	Pinion (11 T) 1-44	170418	Bracket 1-23		
170297	Gear (33 T) 1-44	170419	Spacer 1-9	176304	Bracket 1-36,1-41
170320	Connector, Receptacle (24 Pt) 1-45	170456	Panel Assembly 1-28	176305	Lever, Reset 1-41
170321	Cable Assembly, Control Panels 1-45	170494	Keylever Assembly (LOC RLF) 1-8	176306	Pawl 1-41
170322	Lens, Pilot Light (Red) 1-10	170496	Keylever Assembly (LOC B, SP) 1-8	176307	Arm, Drive 1-41
170323	Lens, Pilot Light (Yellow) 1-10	170499	Panel Assembly, Left 1-10	176308	Screw, Eccentric (4-40) 1-41
170324	Bracket 1-12,1-13	171559	Bulb, Lamp (28 Volt) 1-10	176309	Finger 1-41
170325	Bar Assembly, Auxiliary Code 1-13	172945	Modification Kit 1-36,1-37,1-38	176310	Bracket 1-41
170329	Plate, Left 1-10	172947	Plate, Mounting 1-38	176311	Pawl, Release Lug 1-41
170330	Plate, Right 1-10	172948	Resistor Assembly 1-38	176312	Screw, Eccentric (4-40) 1-41
170331	Bar Assembly 1-15	172976	Filter, R.F. 1-20	176313	Latch, Drive Pawl 1-41
170332	Bail Assembly 1-15	172978	Cover, Contact 1-14	176314	Roller 1-41
170334	Shaft Assembly, Clutch Cam 1-17	173028	Post (6-40) 1-37	176316	Spacer, Reset Lever 1-41
170337	Indicator Assembly, Margin 1-23	173029	Lever, Latch Operating 1-37	176318	Sheet 1-41
170342	Cable Assembly, Keyboard 1-45	173095	Link 1-37	176320	Plate 1-41
170349	Container Assembly 1-28	173096	Stud, Eccentric (6-40) 1-19,1-37	176321	Shim, Washer 1-41
170350	Bar, Code - #0 (8 Level) 1-13	173122	Modification Kit To Eliminate Interference with the Code Bar Reset Bail 1-37	176323	Plate, Side 1-41
170351	Bar, Code - #1 (8 Level) 1-13	173220	Plate, Left 1-10	176339	Post, Stop 1-19
170352	Bar, Code - #2 (8 Level) 1-13	173221	Panel Assembly, Left 1-10	176354	Sleeve 1-18
170353	Bar, Code - #3 (8 Level) 1-13	173222	Cable Assembly 1-45	176395	Modification Kit 1-41
170354	Bar, Code - #4 (8 Level) 1-13	173237	Cable Assembly 1-45	176405	Modification Kit 1-34
170355	Bar, Code - #5 (8 Level) 1-13	173398	Cable Assembly 1-37	176406	Bracket 1-34
170356	Bar, Code - #6 (8 Level) 1-13	173454	Cable Assembly 1-45	176407	Lever 1-34
170357	Bar, Code - #7 (8 Level) 1-13	173508	Gear (66 T) 1-6	176436	Cam, Control 1-22
170358	Bracket 1-2	173645	Coupling 1-5,1-6	176632	Bracket 1-39
170360	Bar, Auxiliary Code 1-13	173711	Cable Assembly, Margin Indicator 1-23	176633	Switch, Rotary 1-39
170361	Bar, Clutch Trip 1-13	173793	Gear (100 T) 1-44	176634	Lever, Actuator 1-39
170362	Latch, Auxiliary 1-13	173794	Pinion (14 T) 1-44	176659	Lever W/Hub, Trip 1-3
170363	Bracket, Left 1-13	173795	Gear Set (65 WPM) 1-44	176661	Bracket W/Post 1-3
170364	Bracket, Right 1-13	174034	Screw (4-40 x 13/16 Hex) 1-26	176663	Link 1-2
170365	Guide Assembly, Code Lever 1-13	174179	Spacer 1-31	176672	Solenoid 1-3
170366	Shaft 1-13	174181	Bracket, Relay Mounting 1-31	176673	Suppressor, Spork 1-3
170369	Bracket, Support 1-13	174182	Relay 1-31	176674	Bracket 1-28
170370	Lever W/Stud, Function 1-13	174183	Guard 1-31	176675	Solenoid Assembly 1-3
170371	Lever W/Stud, Function 1-13	174184	Plate, Cover 1-31	176682	Cable Assembly, Keyboard 1-45
170372	Bail W/Bushings 1-15	174217	Frame 1-39	176691	Resistor (500 Ohm) 1-3
170374	Blade, Front 1-15	174219	Bracket 1-39	176700	Base 1-3
170375	Lever W/Stud (Aux) 1-13	174220	Bushing 1-39	176702	Bracket 1-3
170376	Channel Assembly, Ball 1-15	174221	Washer, Spring 1-39	176703	Plate, Mounting 1-3
170379	Retainer Assembly, Ball 1-15	174222	Armature 1-39	176709	Container Assembly 1-28
170380	Retainer, Wedge 1-15	174223	Cover 1-39	176752	Ring, Retaining 1-42
170381	Lever, Start 1-18	174225	Cable Assembly 1-39	176770	Bracket 1-42
170382	Lever W/Extension, Selector 1-18	174226	Cable Assembly 1-39	176771	Shaft 1-42
170383	Lever W/Extension, Selector 1-18	174227	Cable Assembly 1-39	176772	Gear (56 T) 1-42
170385	Frame W/Bushings 1-16	174238	Magnet Assembly 1-39	176774	Gear (42 T) 1-42
170386	Guide 1-18	174250	Pin, Roll 1-42,1-43	176776	Gear (50 T) 1-42
170388	Post, Guide 1-18			176779	Wick, Felt 1-42
170390	Bail, Locking 1-18			176780	Hub 1-42
170391	Guide 1-18			176781	Shaft, Clutch 1-42
170392	Lever, Non-Repeat 1-19			176782	Gear (63 T) 1-42
170395	Bracket, Function 1-7			176784	Bearing W/Flange 1-42
				176787	Gear (66 T) 1-42

NUMERICAL INDEX - SECTION 1 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
176789	Hub 1-42	178726	Bracket, Spring 1-30	193802	Modification Kit: To Equip LAK
176790	Washer, Bearing 1-42	178728	Modification Kit To Improve		Keyboard Perforator Bases with Per-
176792	Sleeve W/Stud (100 WPM) 1-42		Character Counter 1-30		forator Trip Delay Mechanism 1-19
176793	Sleeve (60 WPM) 1-42	178785	Shaft Assembly, Clutch Cam 1-17	194425	Modification Kit 1-32
176794	Spring, Clutch (R. H.) 1-42	178786	Cable Assembly, Keyboard 1-45	194452	Lever Assembly 1-12
176795	Spring, Clutch (L. H.) 1-42	178787	Sleeve Assembly, Gear 1-17	194925	Pinion (13 T) 1-44
176796	Wick, Felt 1-42	178790	Contact Assembly 1-14	194926	Gear (81 T) 1-44
176797	Gear (48 T) 1-42	178795	Sleeve Assembly, Cam 1-17	194927	Gear Set (67 WPM) 1-44
176799	Gear (35 T) 1-42	178849	Cord Assembly, Indicator 1-30	194928	Gear Set (67 WPM) 1-44
176801	Guard, Gear 1-42	178851	Pulley 1-30	195144	Pinion (11 T) 1-44
176802	Plate, Bearing (Right) 1-42	178871	Sleeve, Insulating (7/16 x 1-1/8")	195145	Gear (49 T) 1-44
176803	Plate, Bearing (Left) 1-42		1-38	195146	Gear Set (67 WPM) 1-44
176804	Shaft, Idler 1-42	179170	Screw (6-40 x 3/4 Rd) 1-10	195147	Gear Set (67 WPM) 1-44
176805	Gear (25 T) 1-42	179258	Bracket, Scale 1-30	195154	Modification Kit 1-5,1-43
176807	Shaft, Trip 1-42	179278	Drum, Ratchet 1-30	195155	Cable Assembly, Backspace 1-43
176808	Bracket 1-42	179279	Bracket W/Posts, Hub and Bushing	195156	Pinion (28 T) 1-43
176809	Bracket 1-42		1-30	195157	Gear (49 T) 1-43
177005	Contact Assembly 1-14	179362	Cable Assembly 1-32	195158	Bracket W/Bearings 1-43
177018	Bracket 1-39	179363	Cable Assembly 1-32	195160	Pinion (20 T) 1-43
178142	Sleeve Assembly, Cam 1-17	179599	Cable Assembly 1-2	195161	Shaft 1-43
178329	Cable Assembly 1-31	179621	Cable Assembly, Auxiliary 1-45	195162	Plate, Nut (10-32) 1-43
178331	Cable Assembly, Keylever Contact 1-31	179623	Resistor W/Terminals (3,920 Ohm)	195163	Bracket 1-43
178339	Cable Assembly 1-31		1-2	195164	Bracket W/Bearings 1-5
178340	Relay Assembly, Control 1-31	179740	Cable Assembly 1-39	195165	Shaft W/Bearings and Gear 1-5
178345	Modification Kit 1-17,1-31	179990	Button (Black) 1-10	195166	Plate 1-5
178349	Cable Assembly, Control Relay 1-31	179991	Button (Red) 1-10	195167	Lever 1-43
178490	Modification Kit To Prevent Keyboard Lockup 1-12	179992	Button (Gray) 1-10	195168	Bracket 1-43
178491	Bail 1-19	192533	Plate W/Stud, Rear 1-19	195169	Bracket 1-43
178492	Lever 1-19	192534	Post, Locking Bail 1-18	195186	Screw (4-40 x 7/8 Hex) 1-20
178493	Latch W/Hub 1-19	192629	Shaft 1-6	195187	Screw (4-40 x 1-1/2 Hex) 1-20, 1-21
178494	Spring, Torsion 1-19	192681	Screw, Special (4-40) 1-15	195263	Pinion (22 T) 1-43
178725	Spring 1-30	193565	Coupling, Flexible 1-6,1-44	195264	Gear (49 T) 1-43
		193654	Clamp, Armature 1-32	195417	Shaft, Driven 1-43
				195418	Gear (48 T) 1-43
				195420	Pawl 1-43

SECTION 2

PERFORATOR (LPE NON-TYPING — LTPE TYPING)

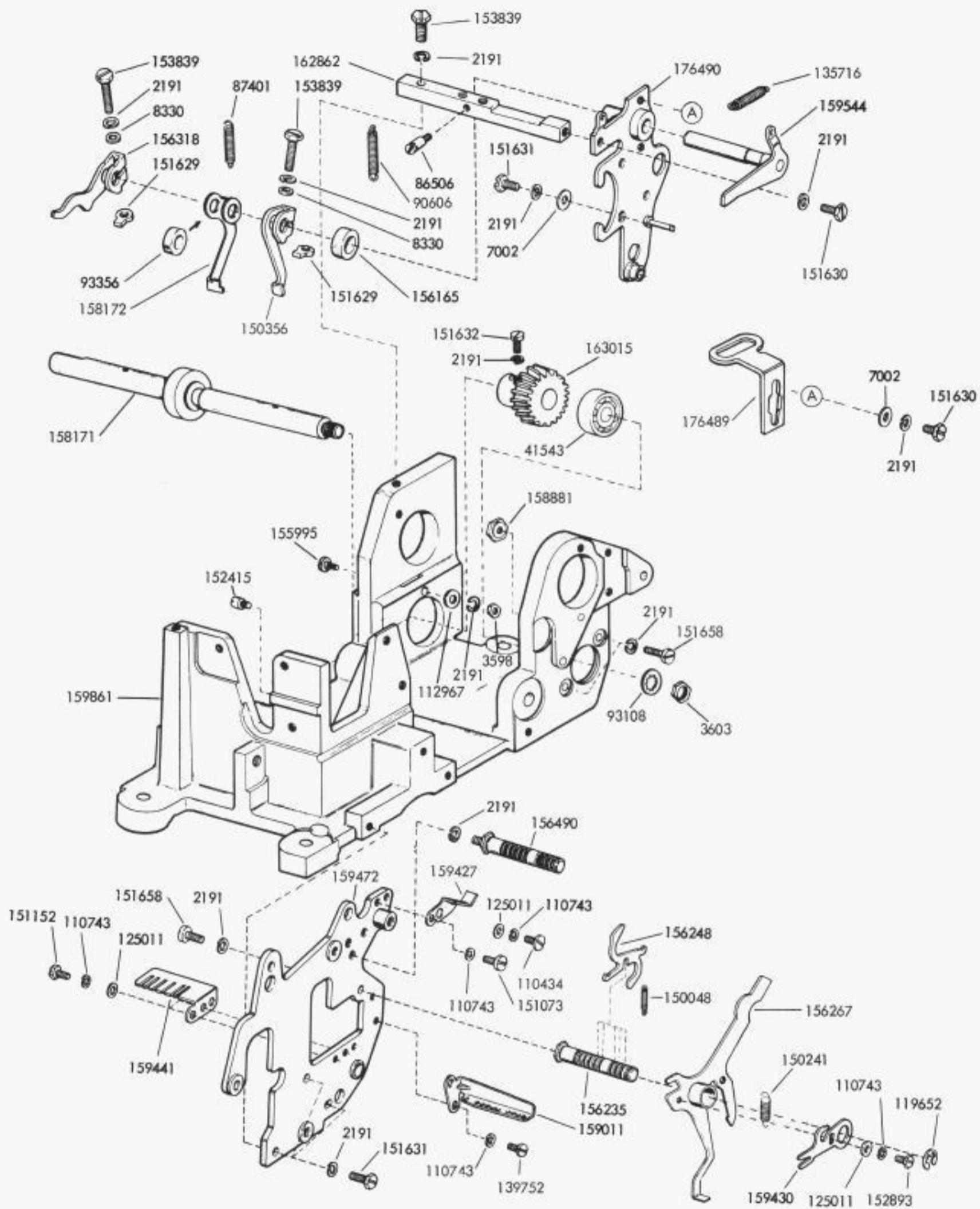
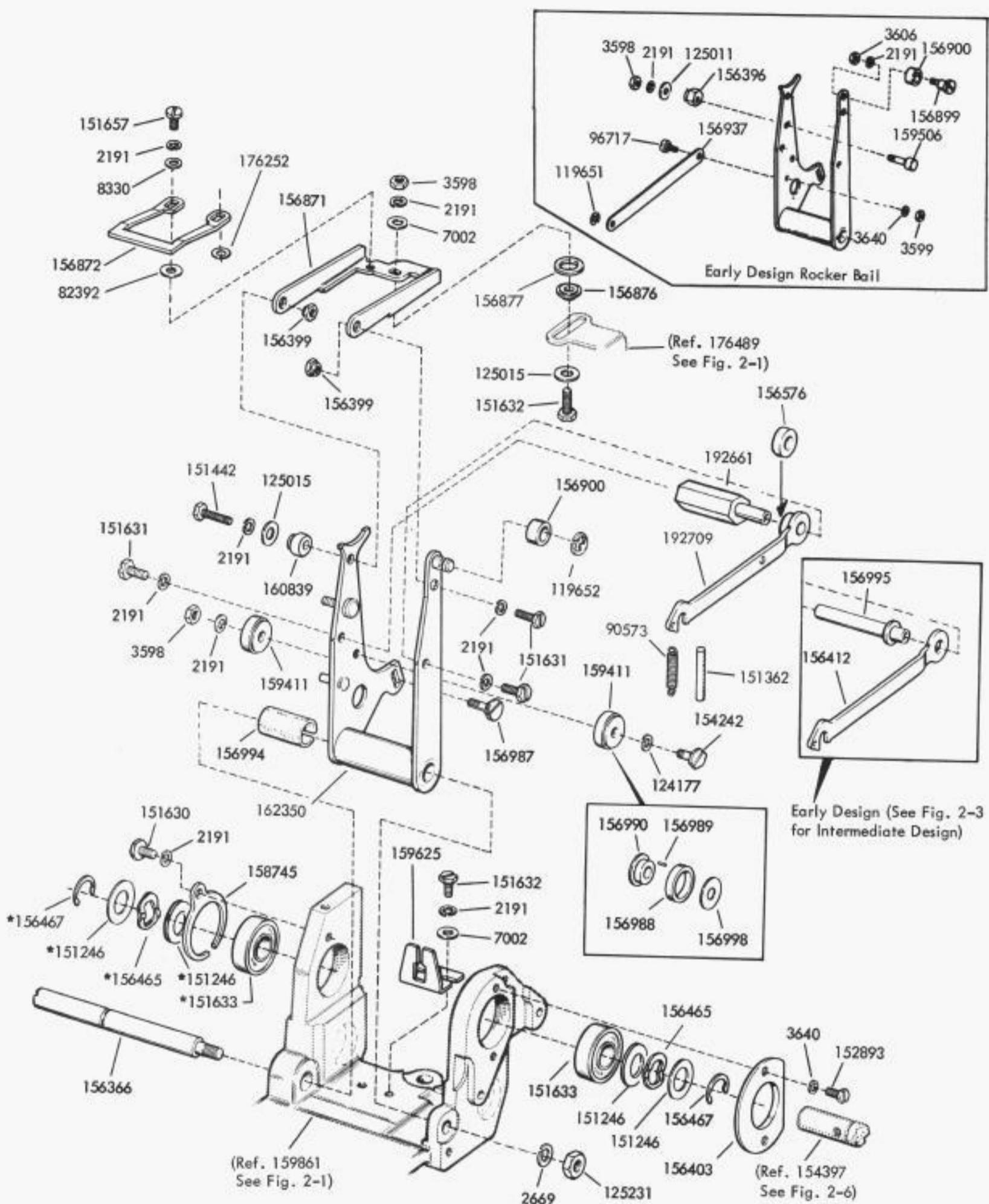


FIGURE 2-1. FRAME MECHANISM (TYPING PERFORATOR)



*These Parts are Not Used With Later Shaft (154397) Design

FIGURE 2-2. FRAME MECHANISM (TYPING PERFORATOR)

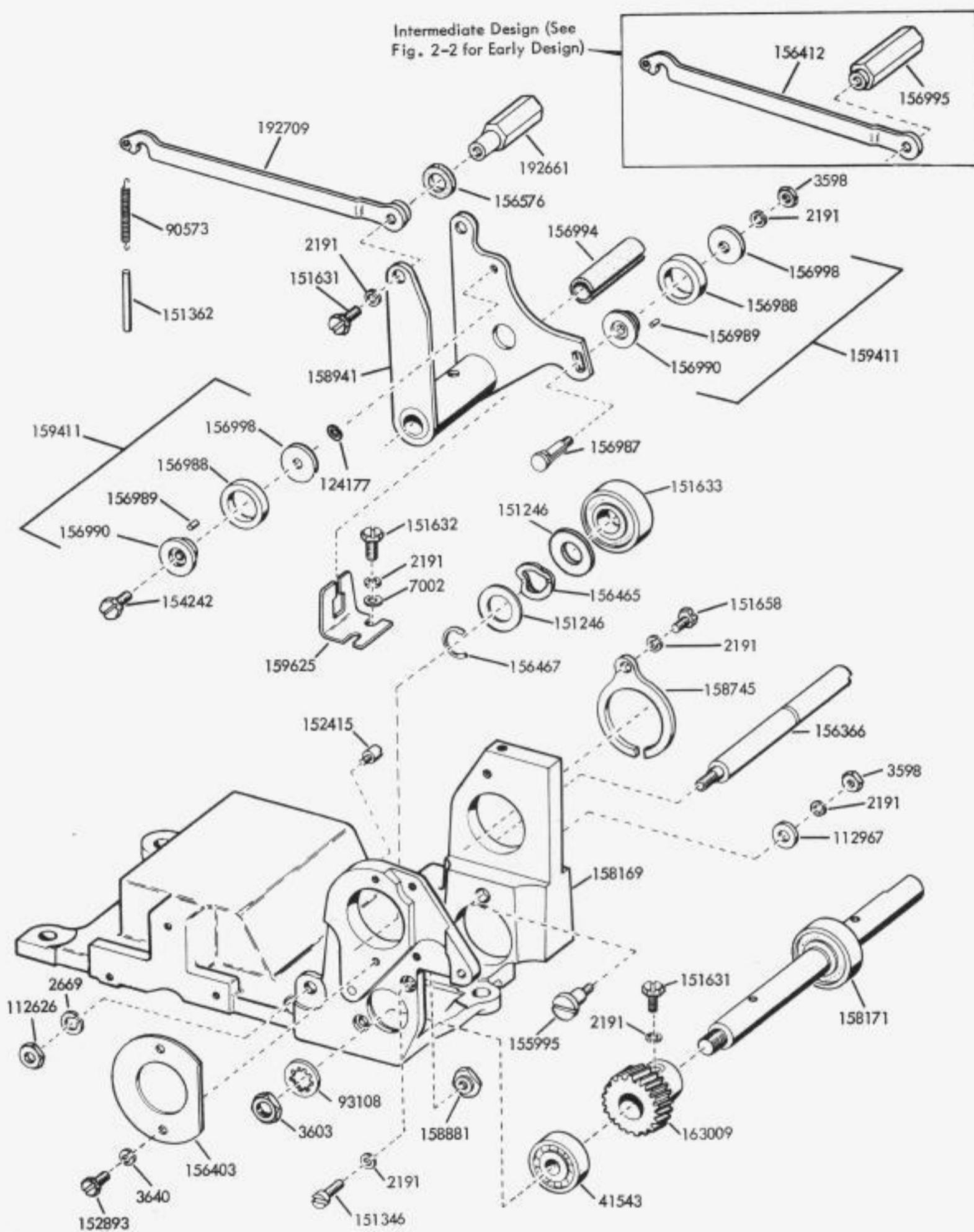


FIGURE 2-3. FRAME MECHANISM (NON-TYPING PERFORATOR)

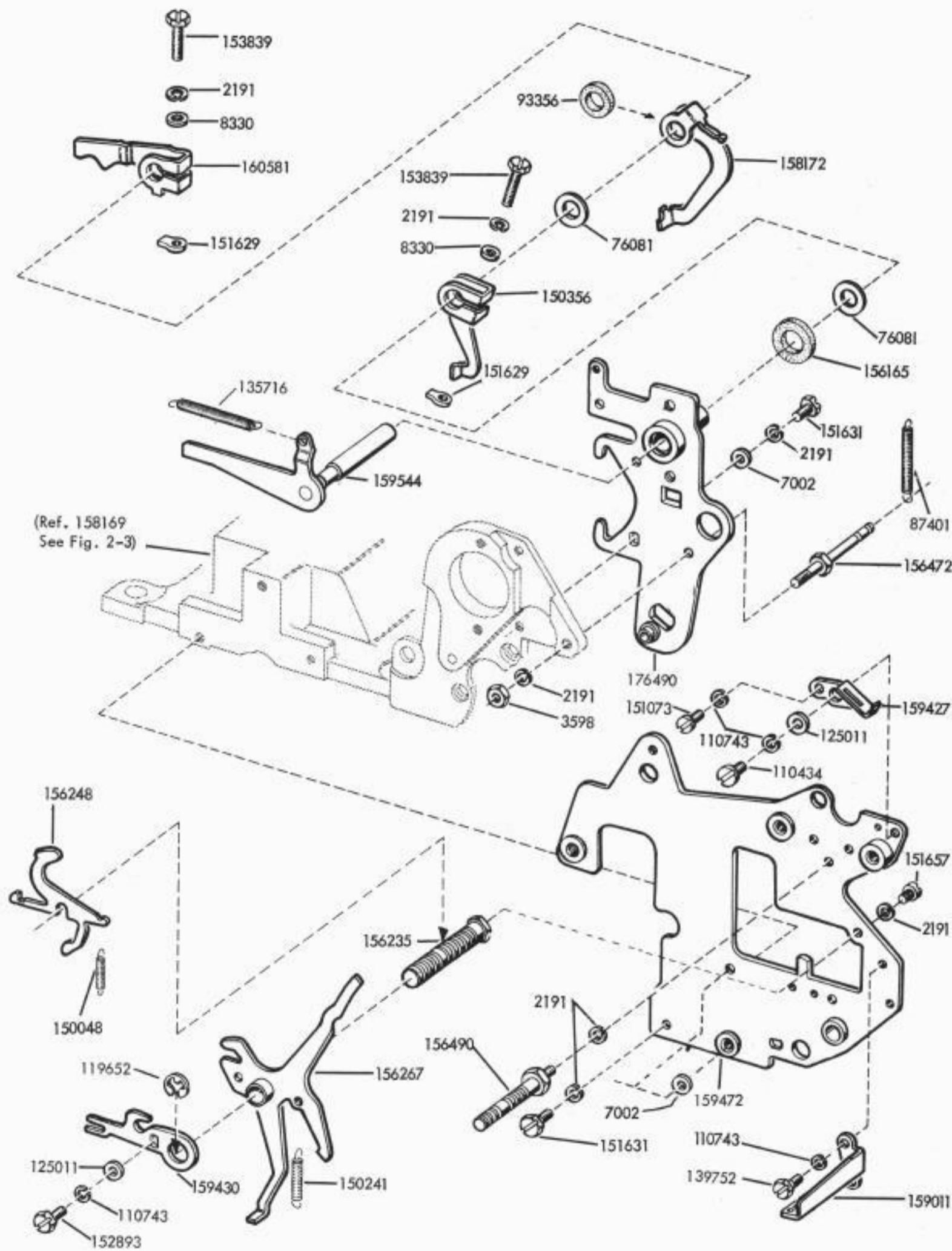
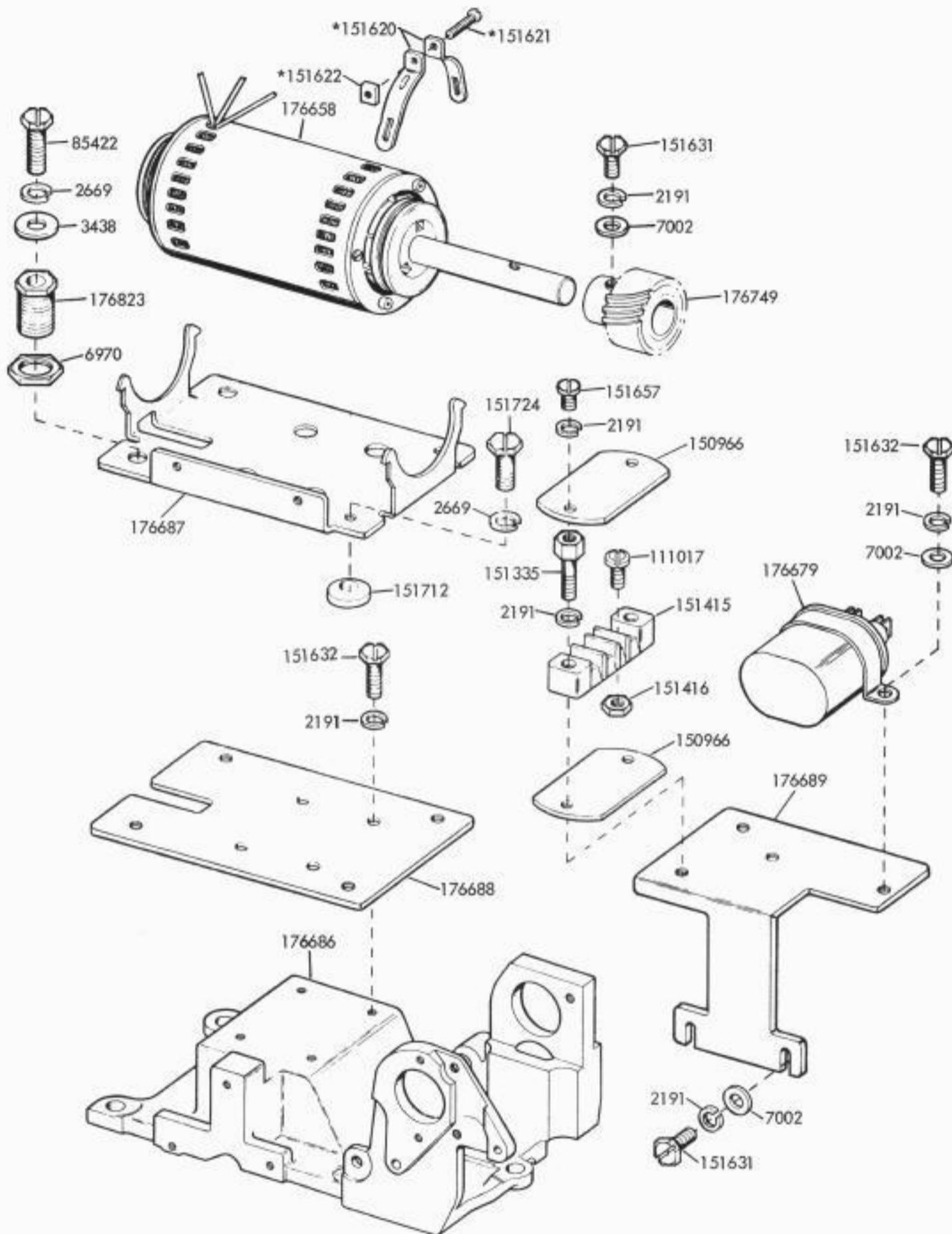


FIGURE 2-4. FRAME MECHANISM (NON-TYPING PERFORATOR)



*PART OF 122207

FIGURE 2-5. FRAME AND MOTOR MOUNTING PARTS (NON-TYPING PERFORATOR)

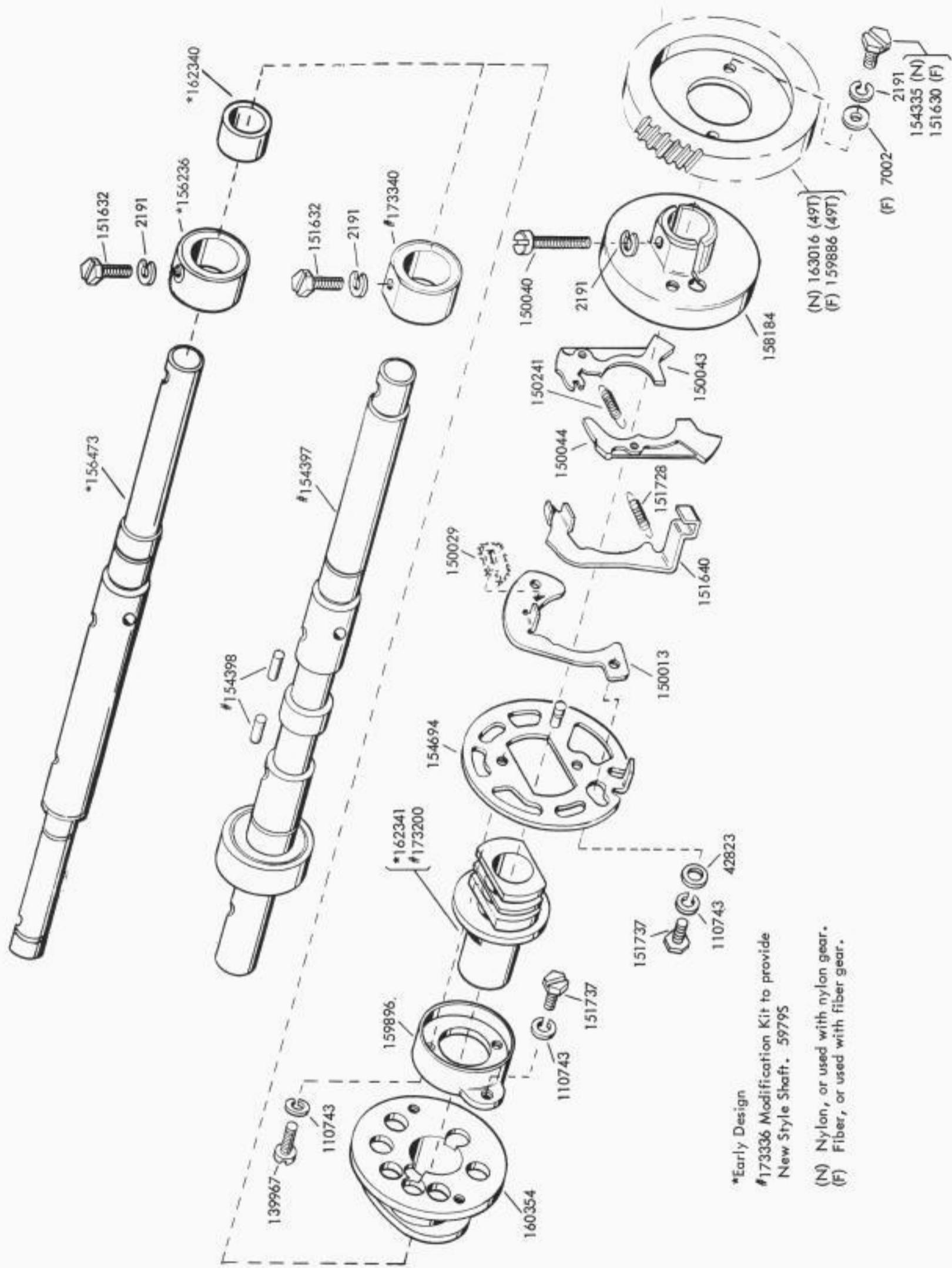


FIGURE 2-6. MAIN SHAFT MECHANISM (TYPING PERFORATOR)

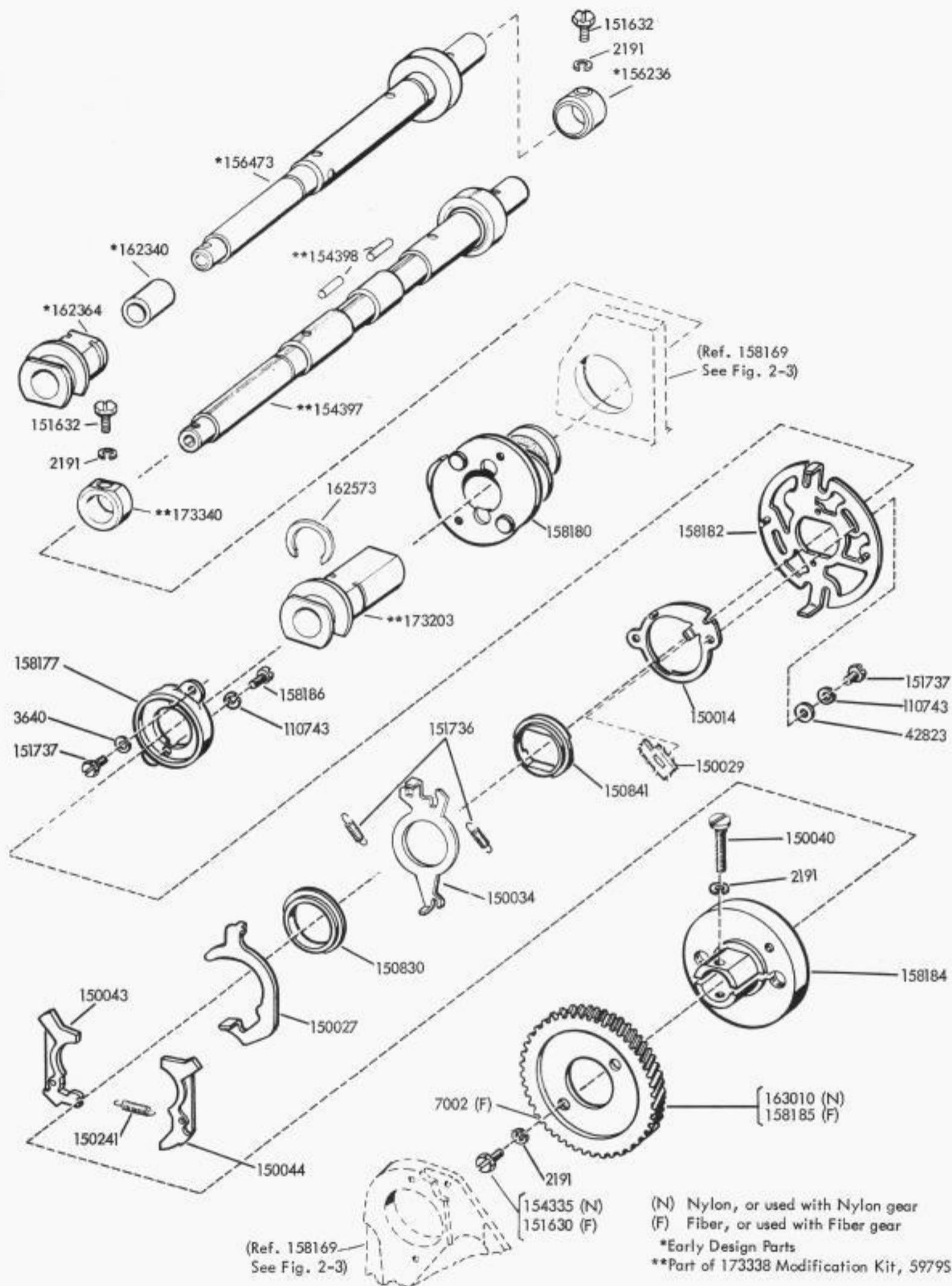


FIGURE 2-7. MAIN SHAFT MECHANISM (NON-TYPING PERFORATOR)

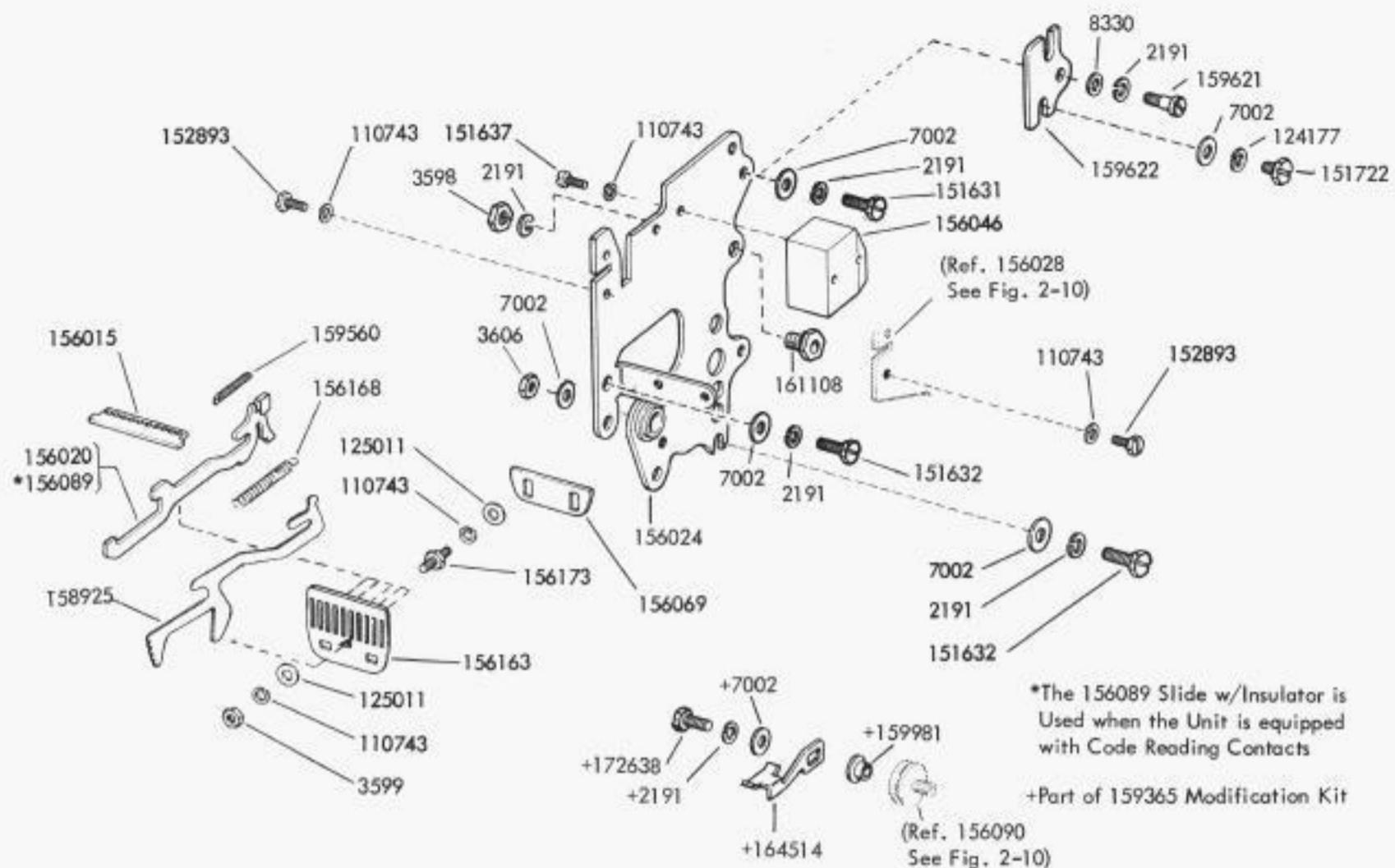


FIGURE 2-8. PUNCH REAR PLATE MECHANISM

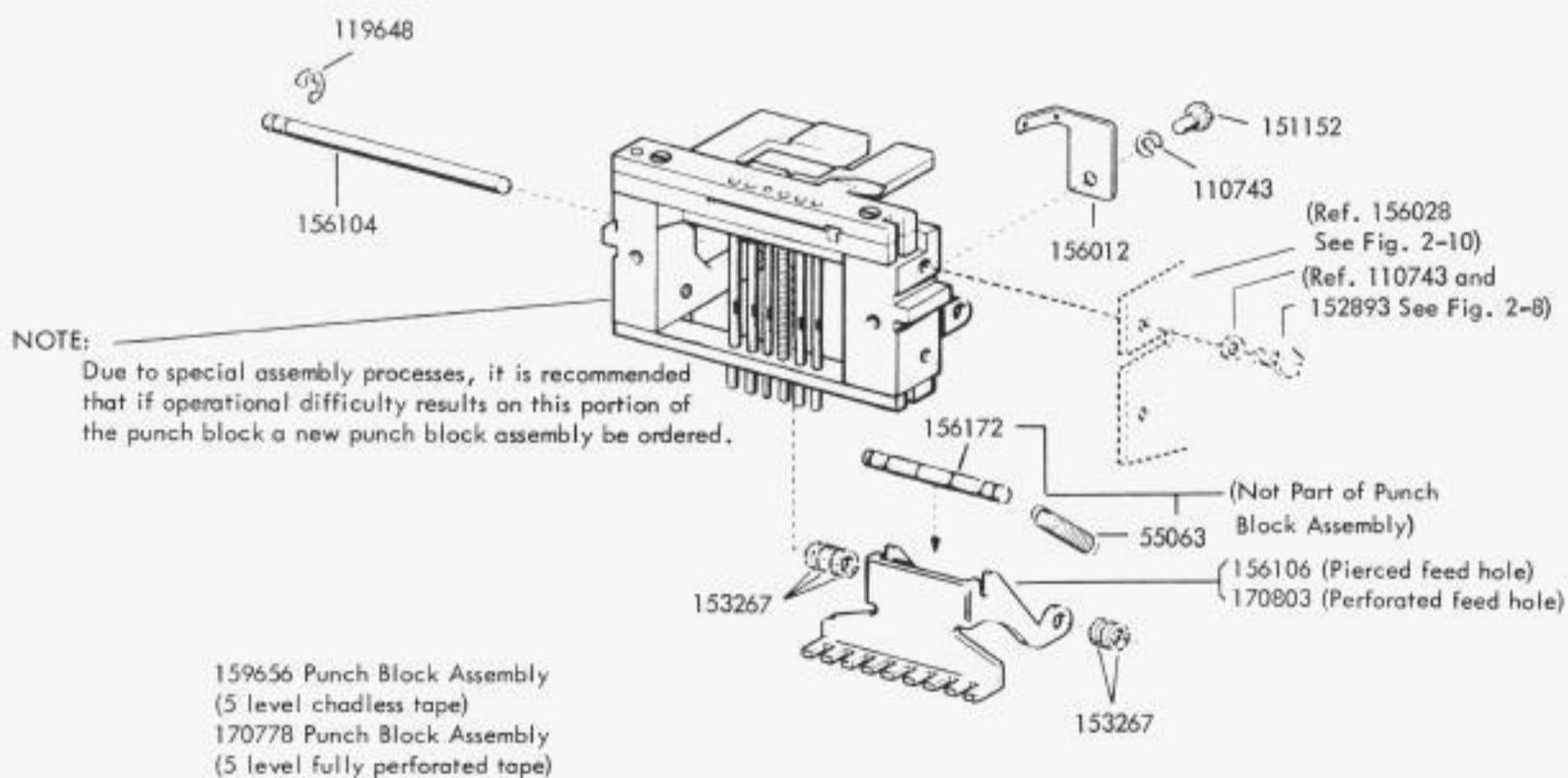


FIGURE 2-9. PUNCH BLOCK ASSEMBLIES

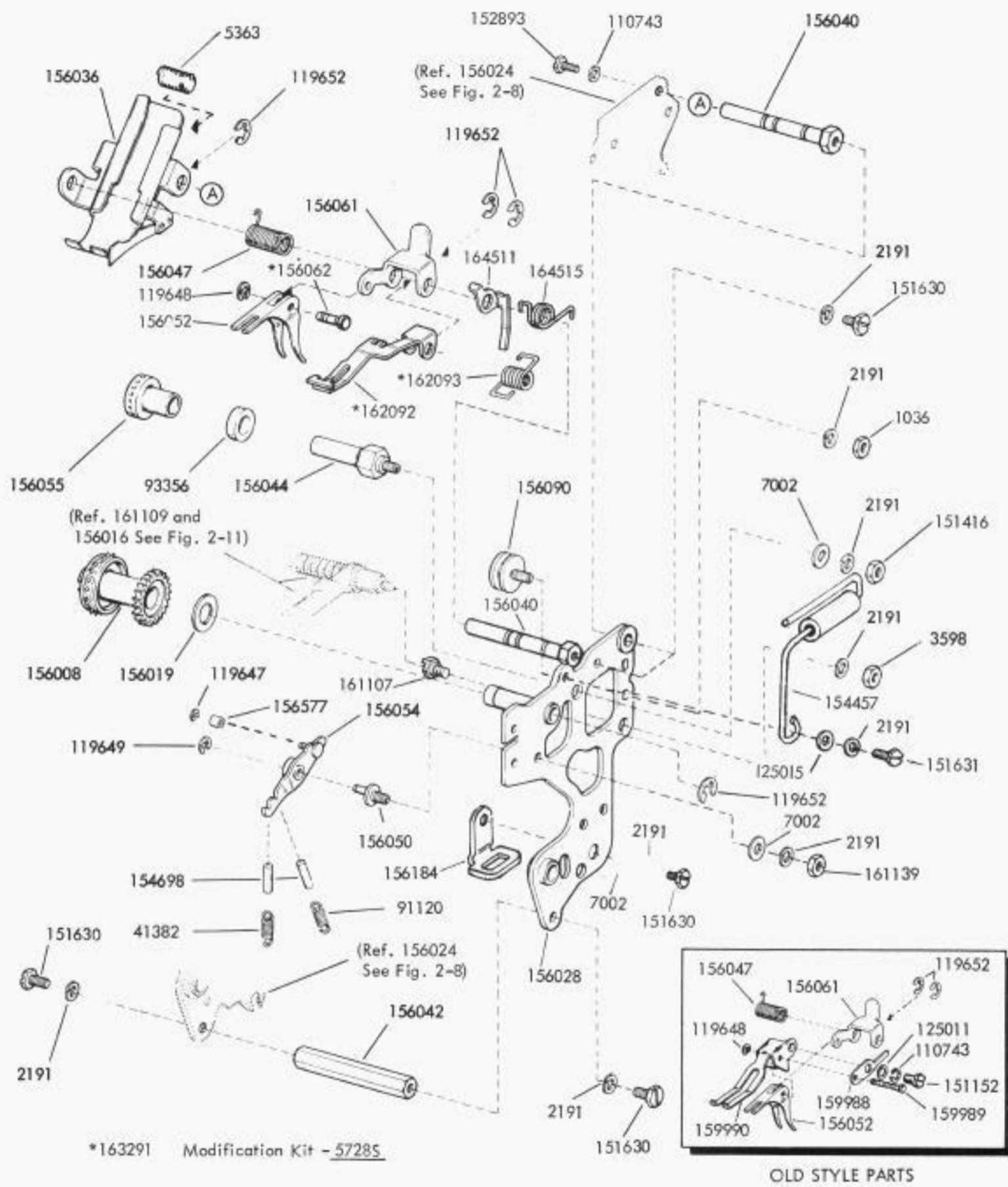


FIGURE 2-10. PUNCH BLOCK PLATE MECHANISM

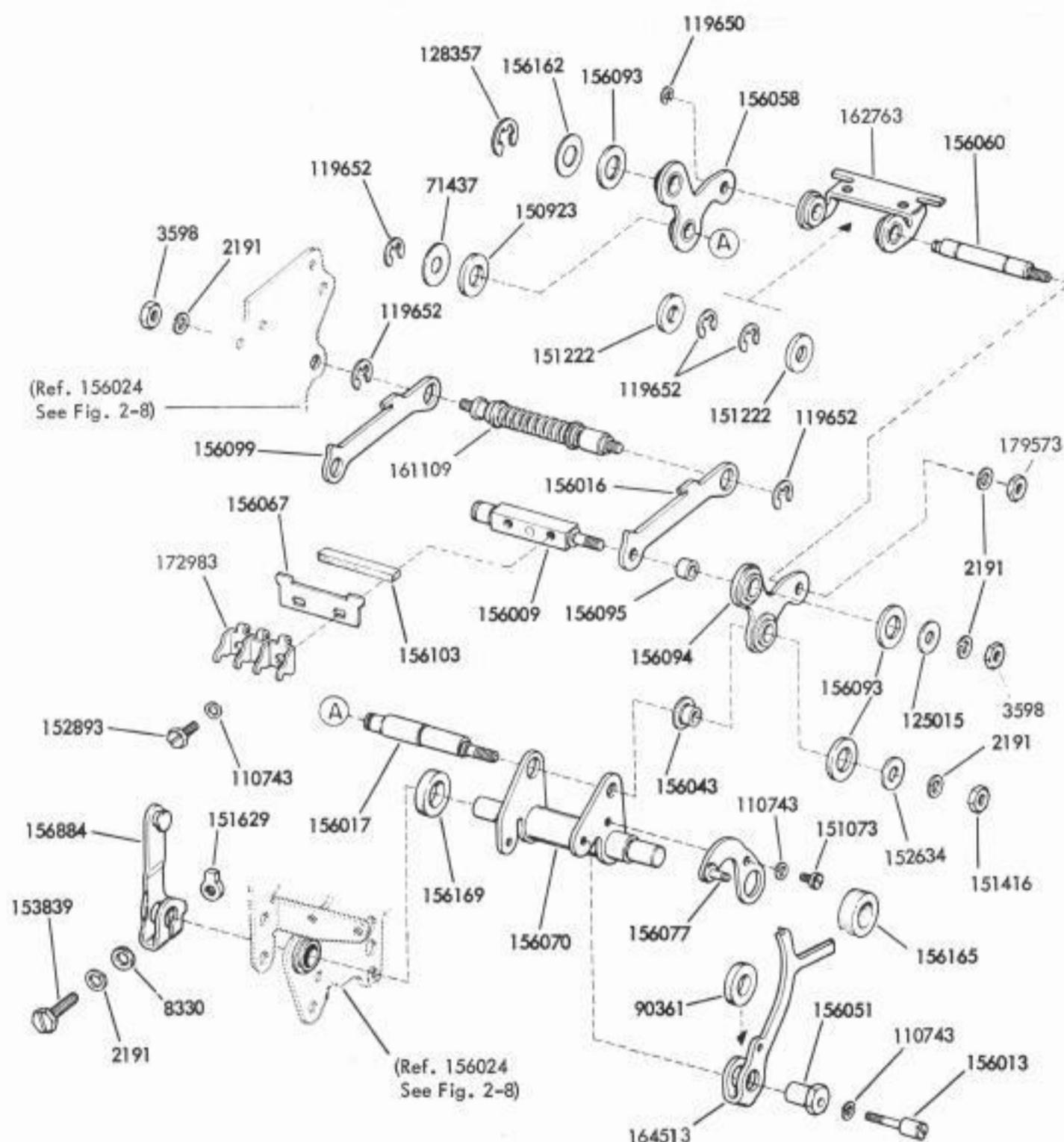


FIGURE 2-11. PUNCH BAIL MECHANISM

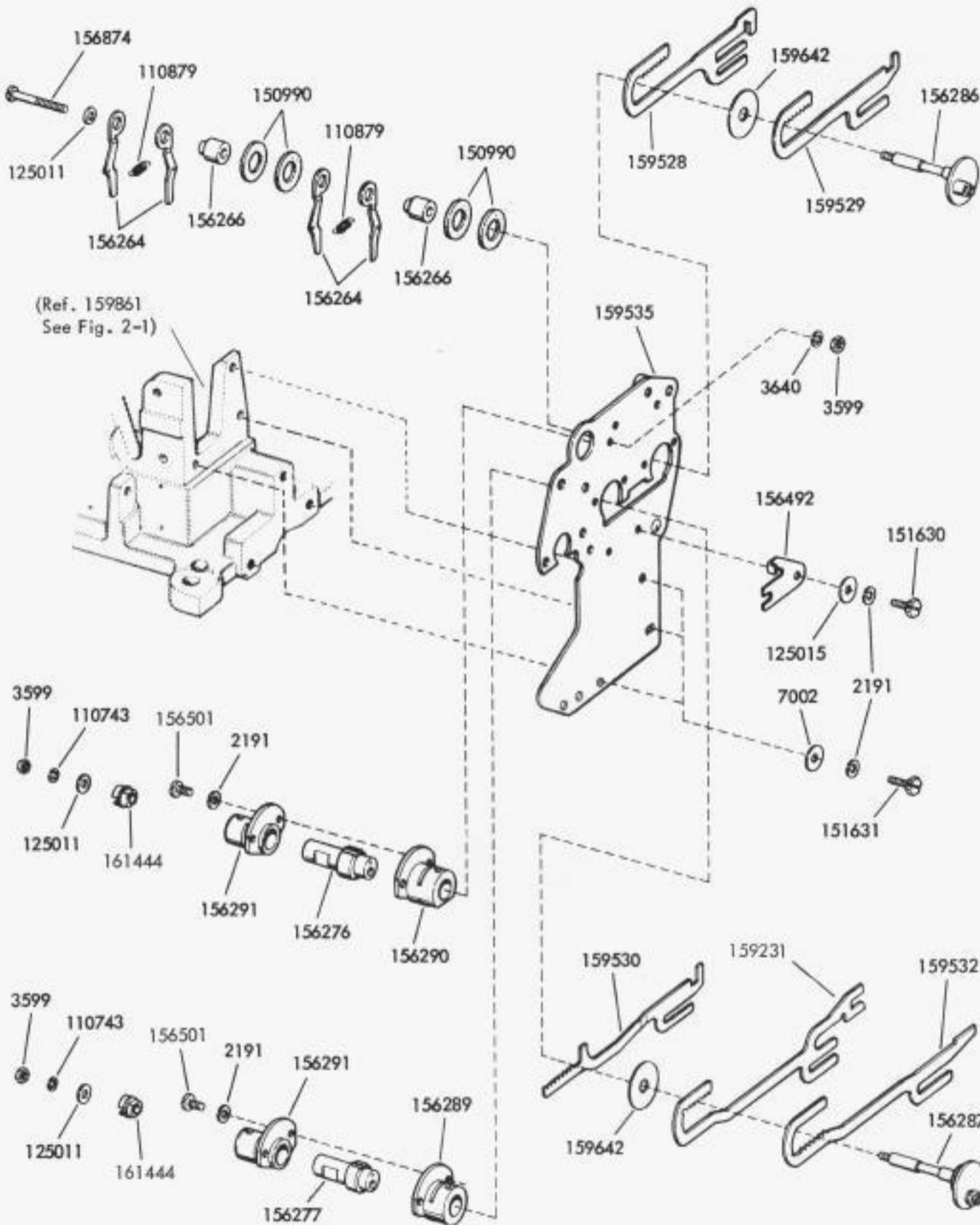


FIGURE 2-12. ROTARY POSITIONING MECHANISM

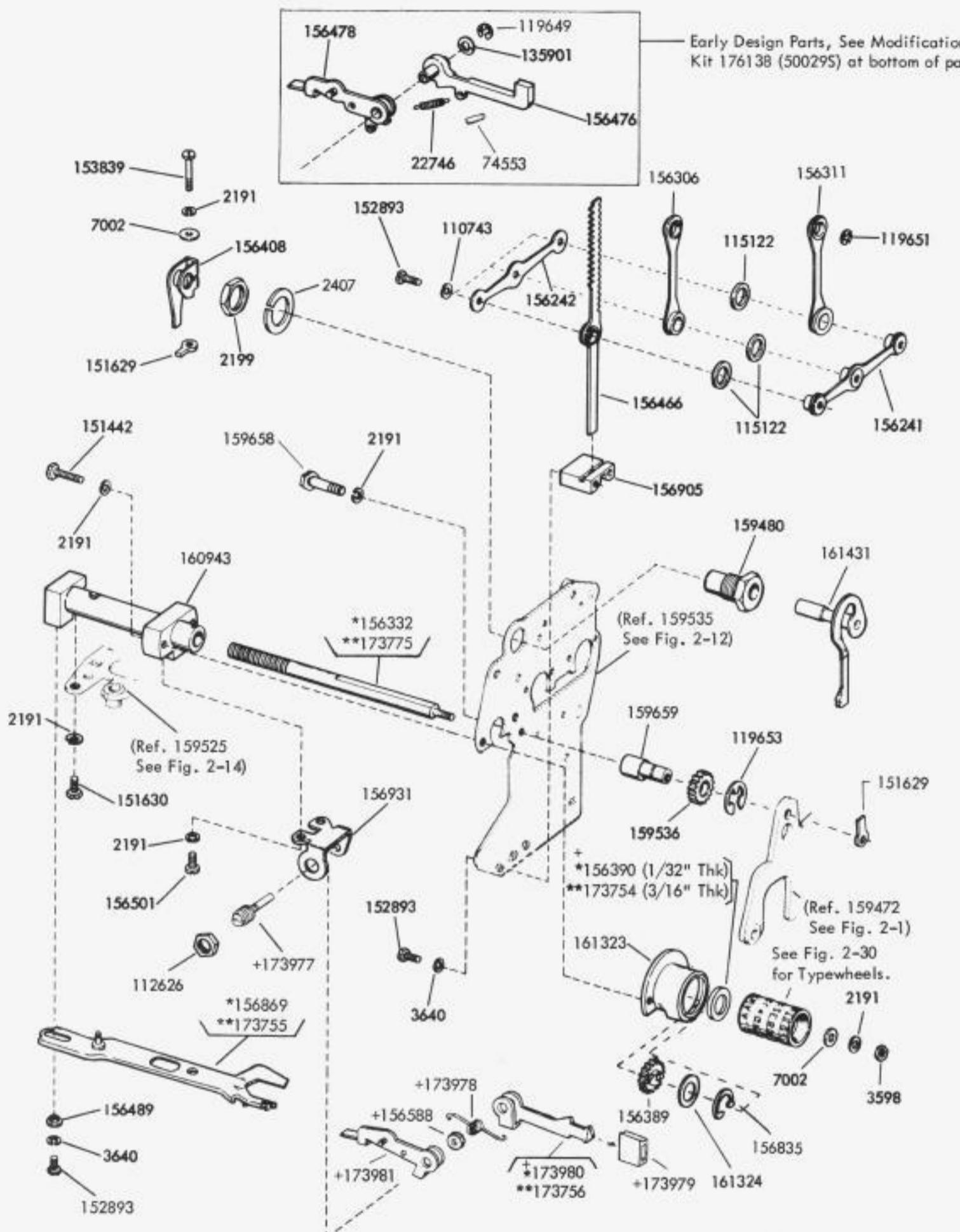


FIGURE 2-13. ROTARY POSITIONING MECHANISM

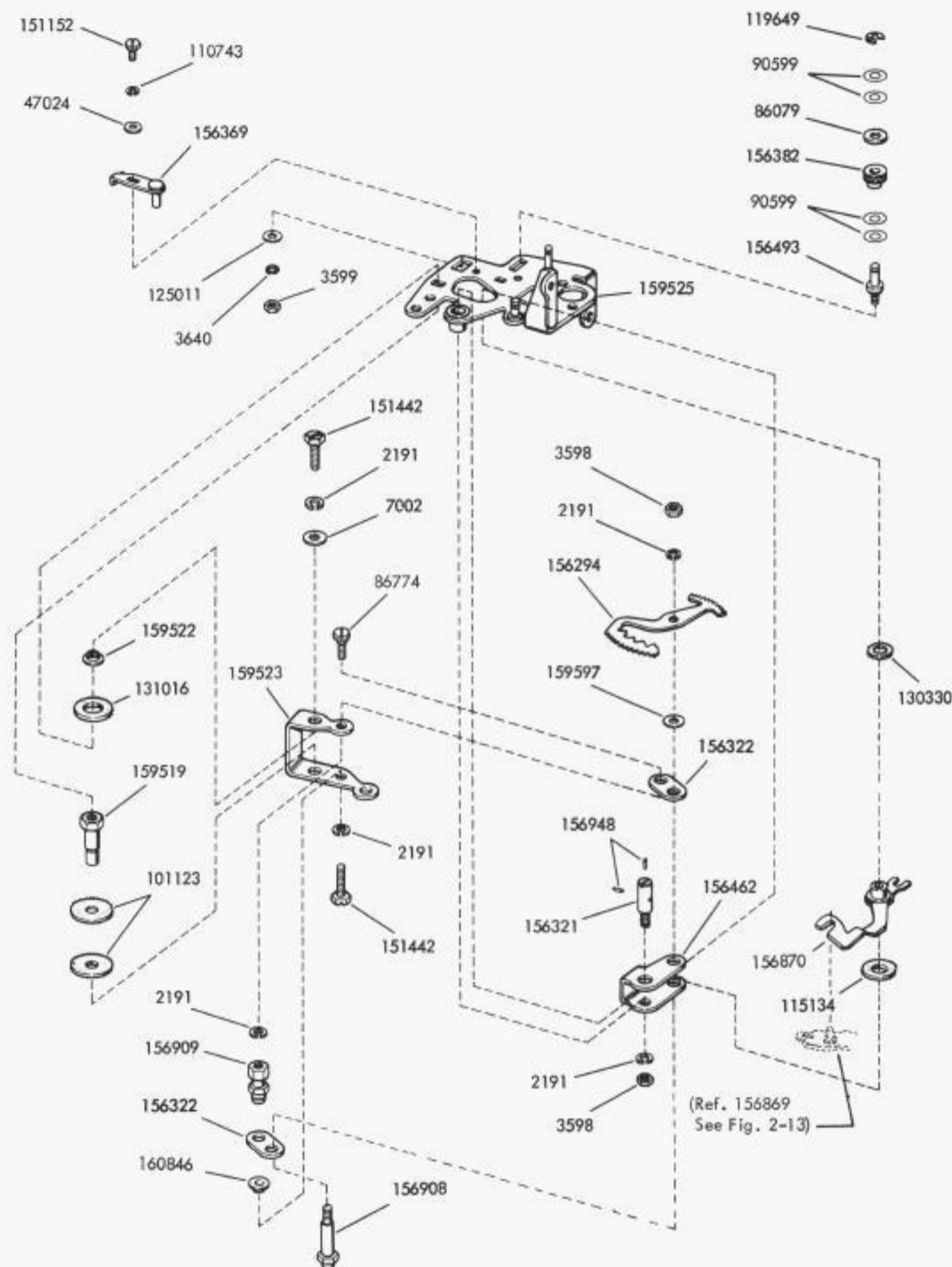


FIGURE 2-14. AXIAL POSITIONING MECHANISM

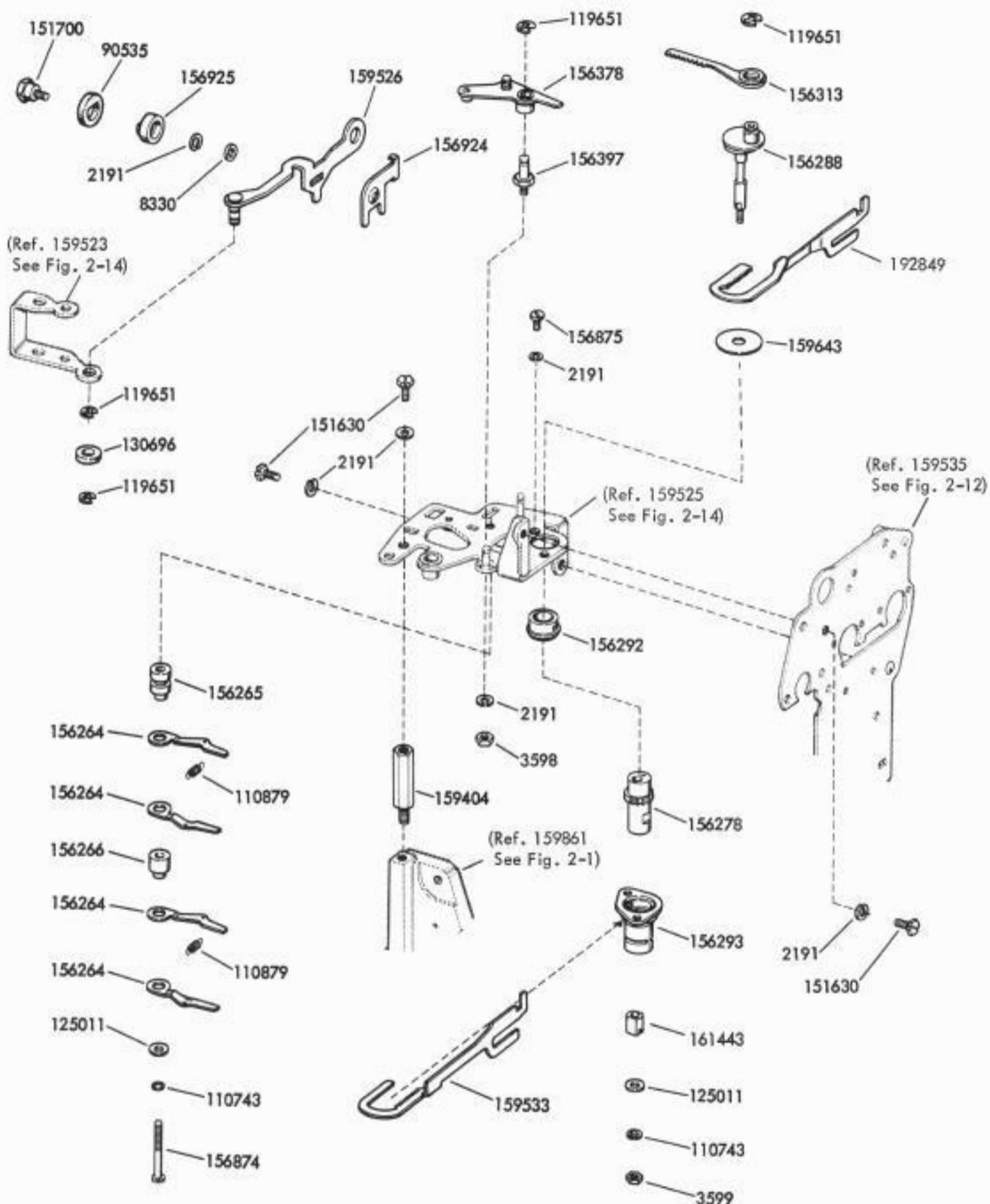


FIGURE 2-15. AXIAL POSITIONING MECHANISM

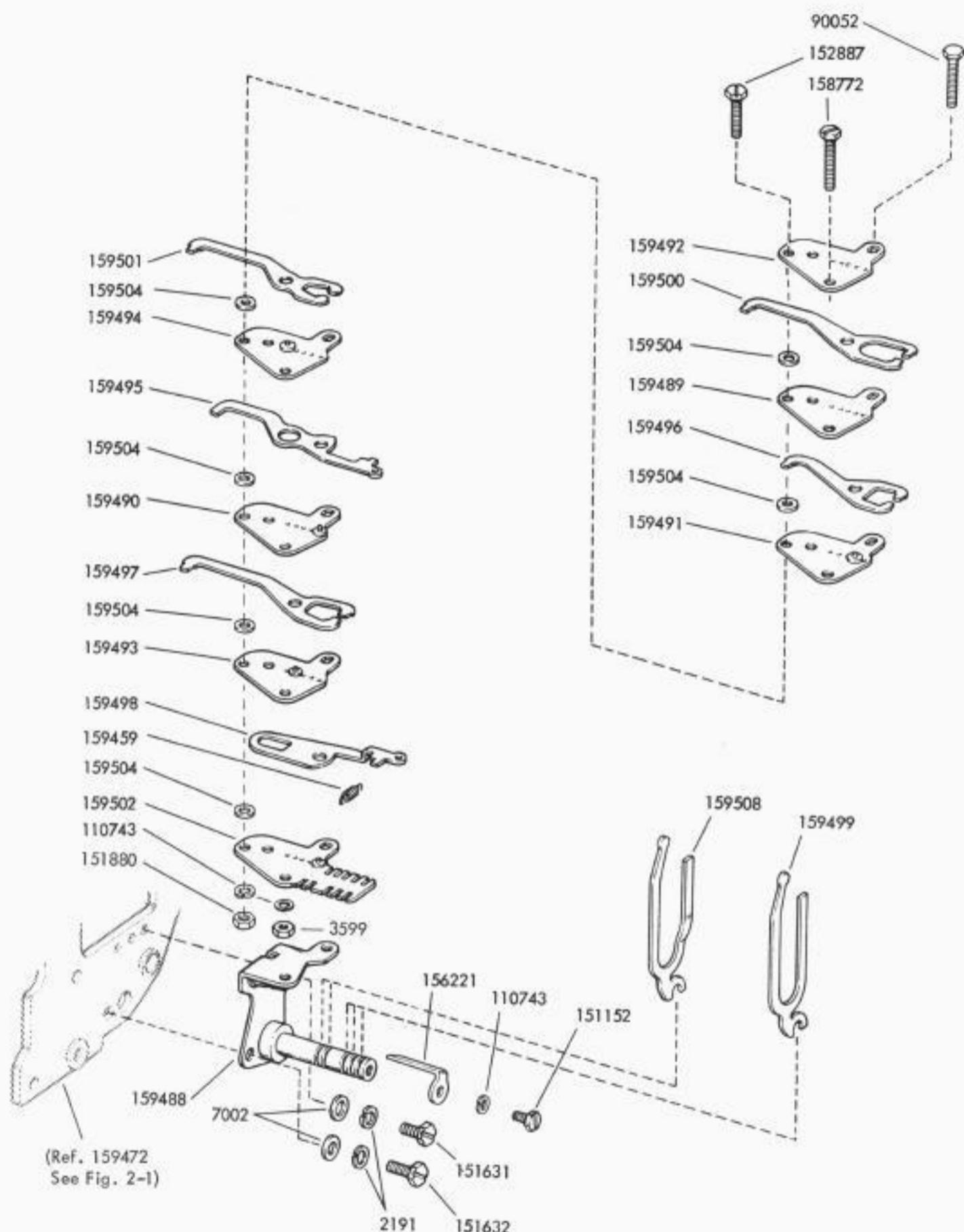
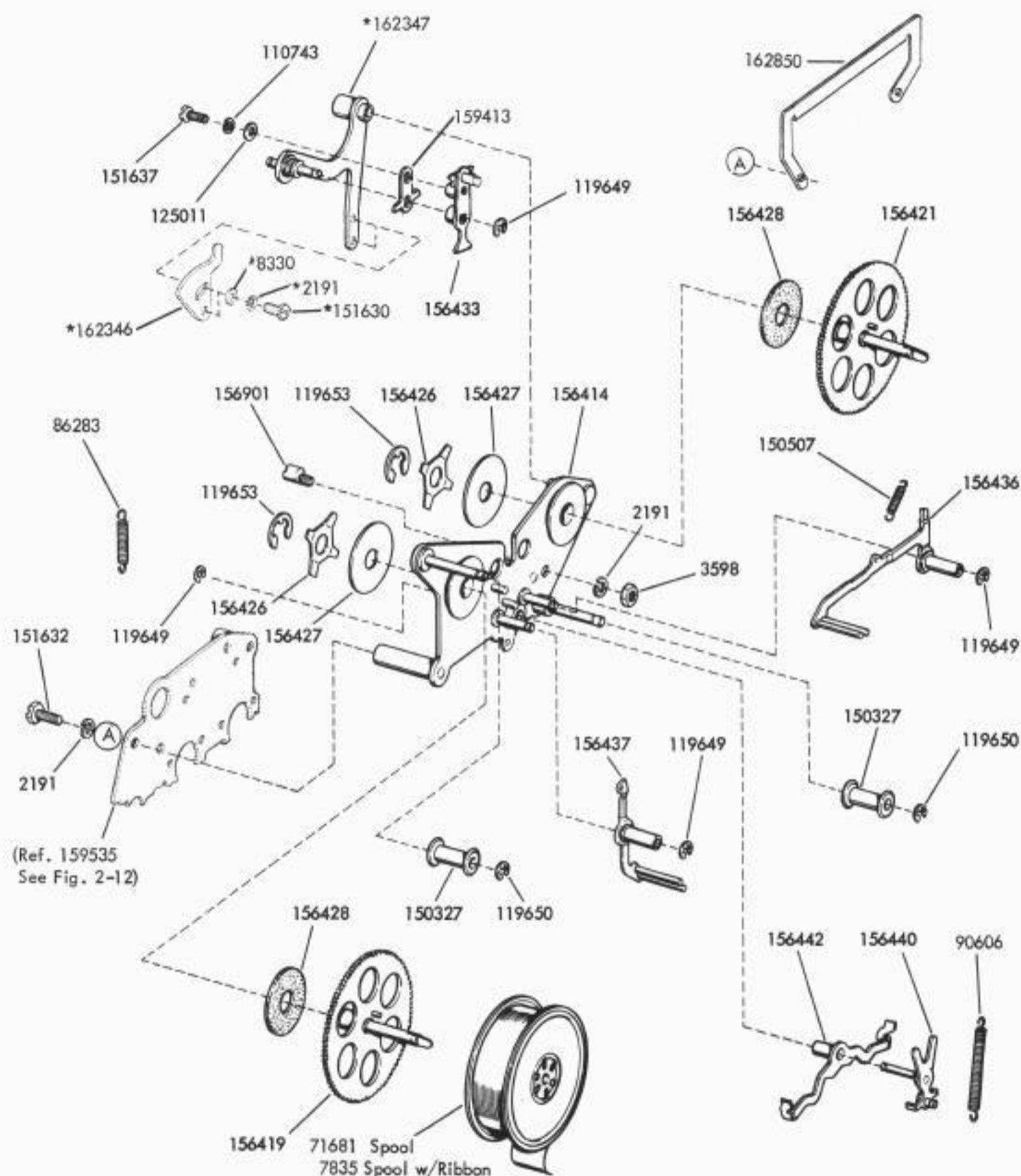


FIGURE 2-17. TRANSFER MECHANISM



*Part of 154325 Modification Kit

For Latest Design Ribbon Feed Mechanism See Figure 2-19.

FIGURE 2-18. RIBBON FEED MECHANISM (EARLY DESIGN)

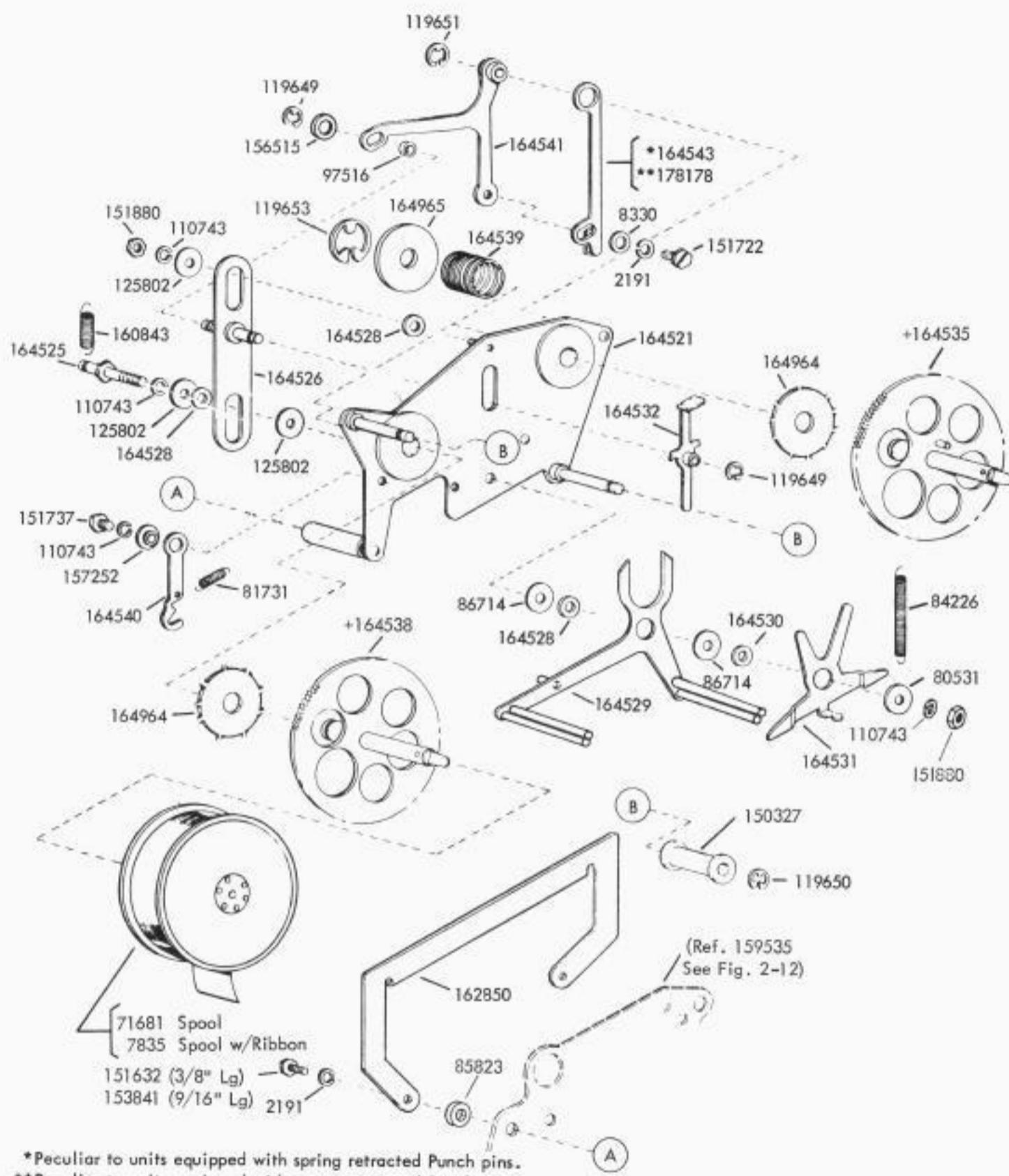


FIGURE 2-19. RIBBON FEED MECHANISM (LATE DESIGN)

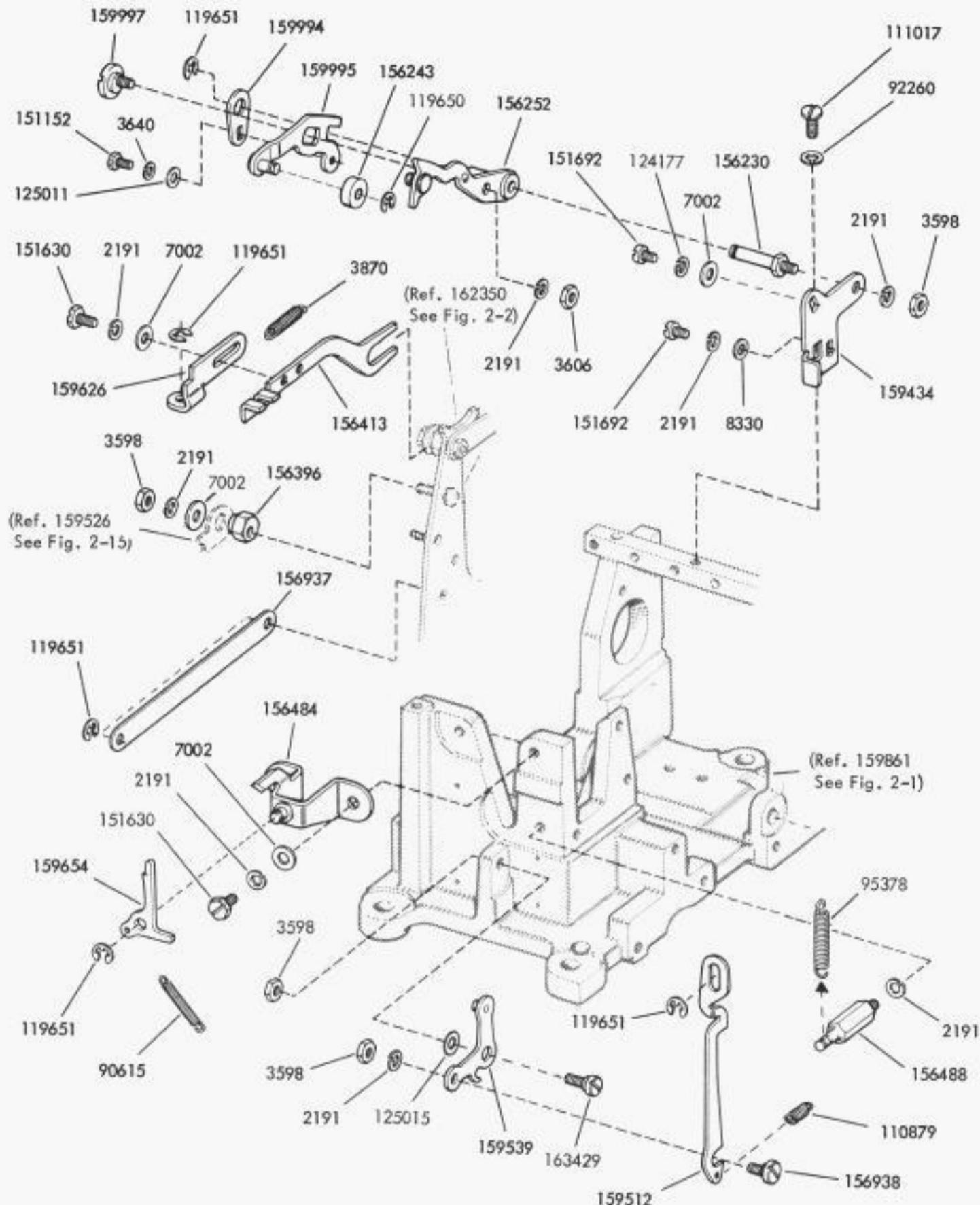
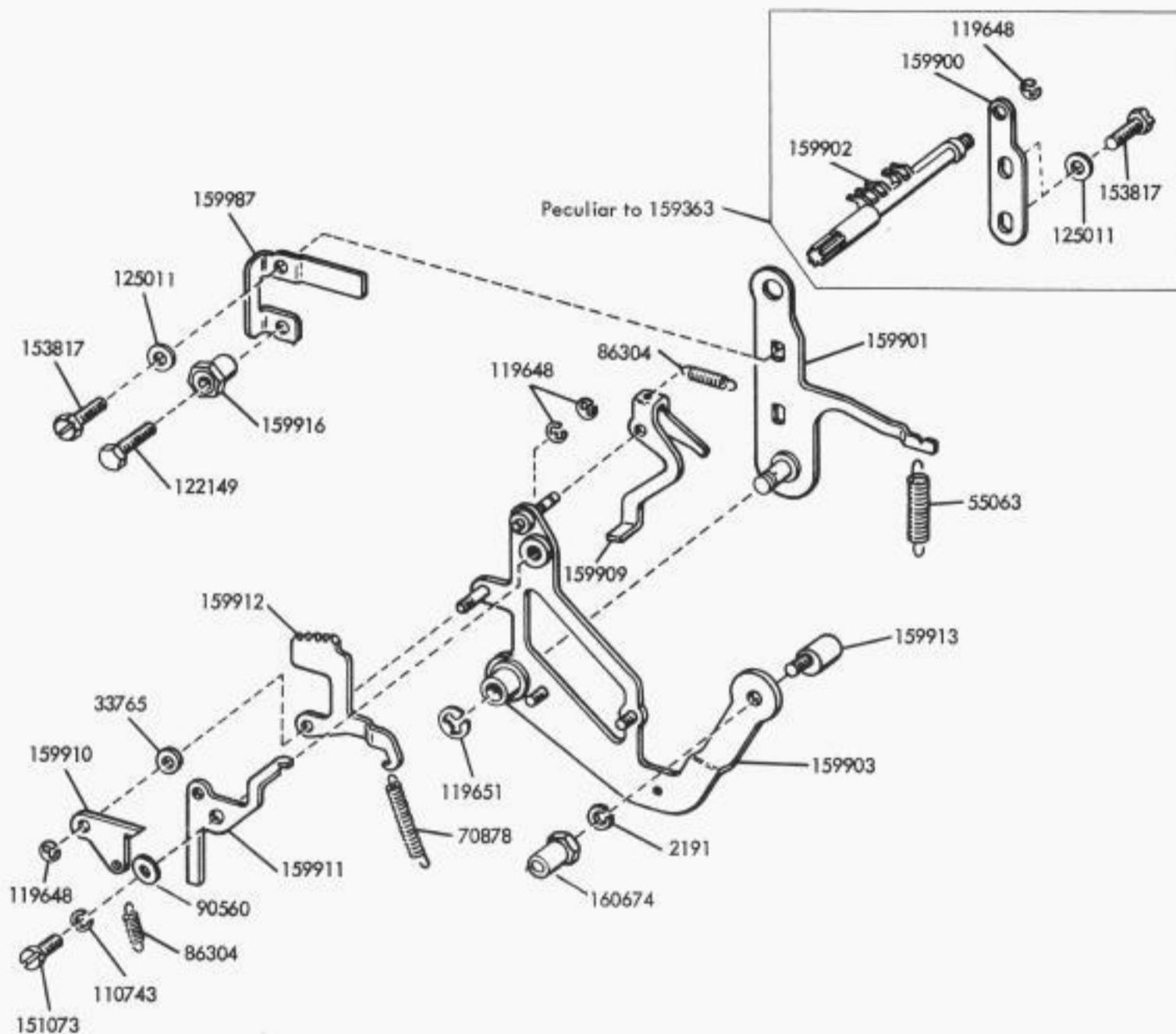


FIGURE 2-20. TYPING MECHANISM



159363 (Chadless Tape)
172640 (Fully Perforated)

FIGURE 2-21. 159363 AND 172640 MODIFICATION KITS TO ADD MANUAL BACKSPACE

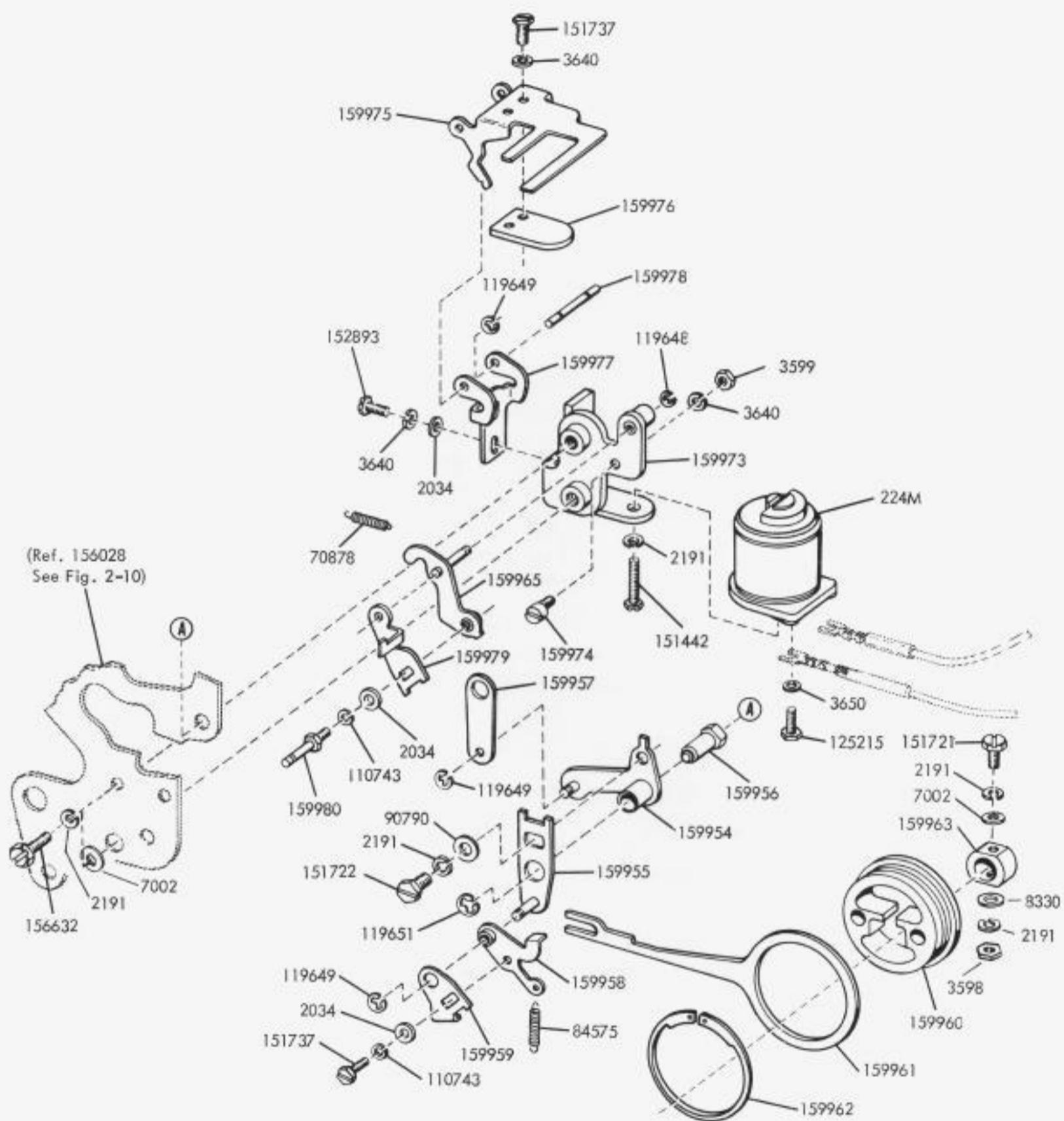


FIGURE 2-22. 159364 MODIFICATION KIT TO ADD POWER DRIVE TO BACKSPACE

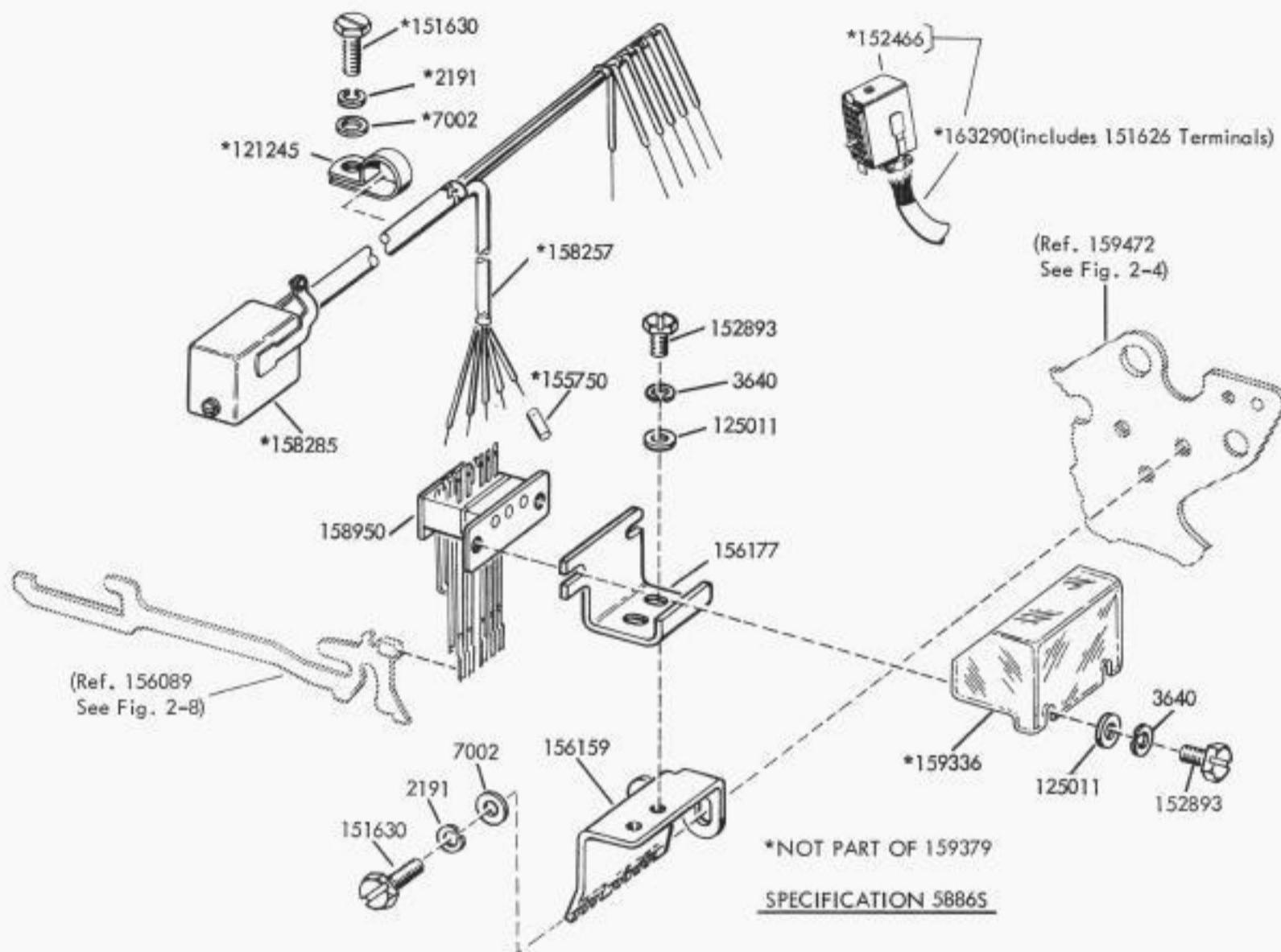


FIGURE 2-23. 159379 MODIFICATION KIT TO ADD "MAKE ONLY" CODE READING CONTACTS

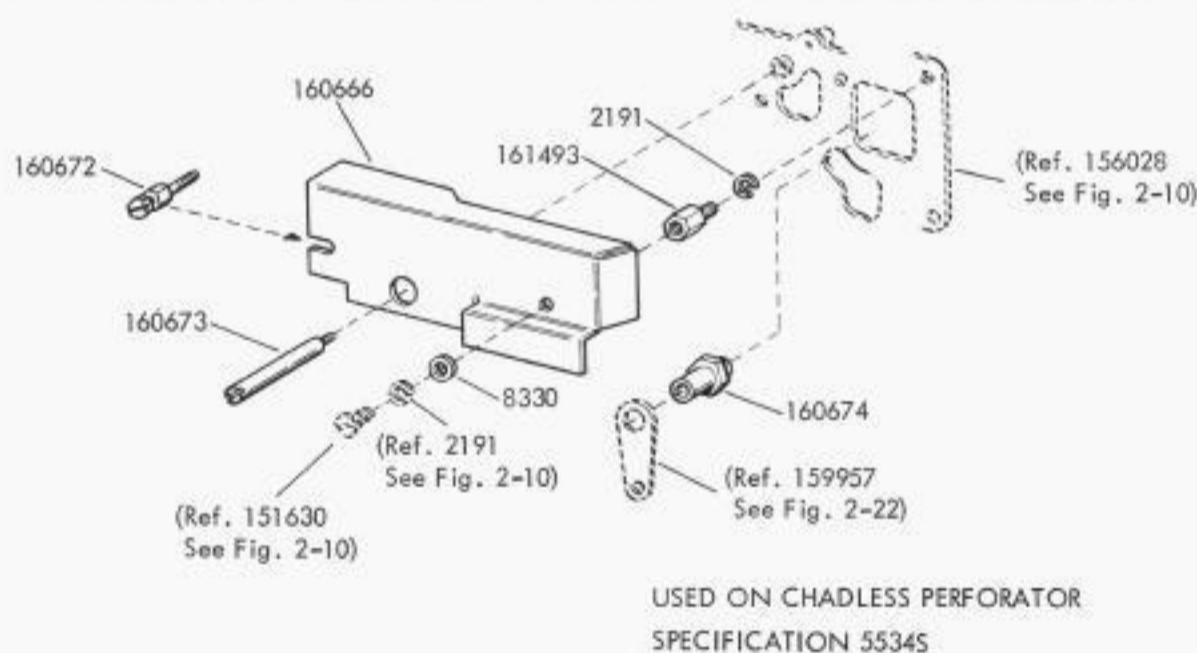


FIGURE 2-24. 160881 MODIFICATION KIT TO ADD GUARD TO COVER BACKSPACE MECHANISM

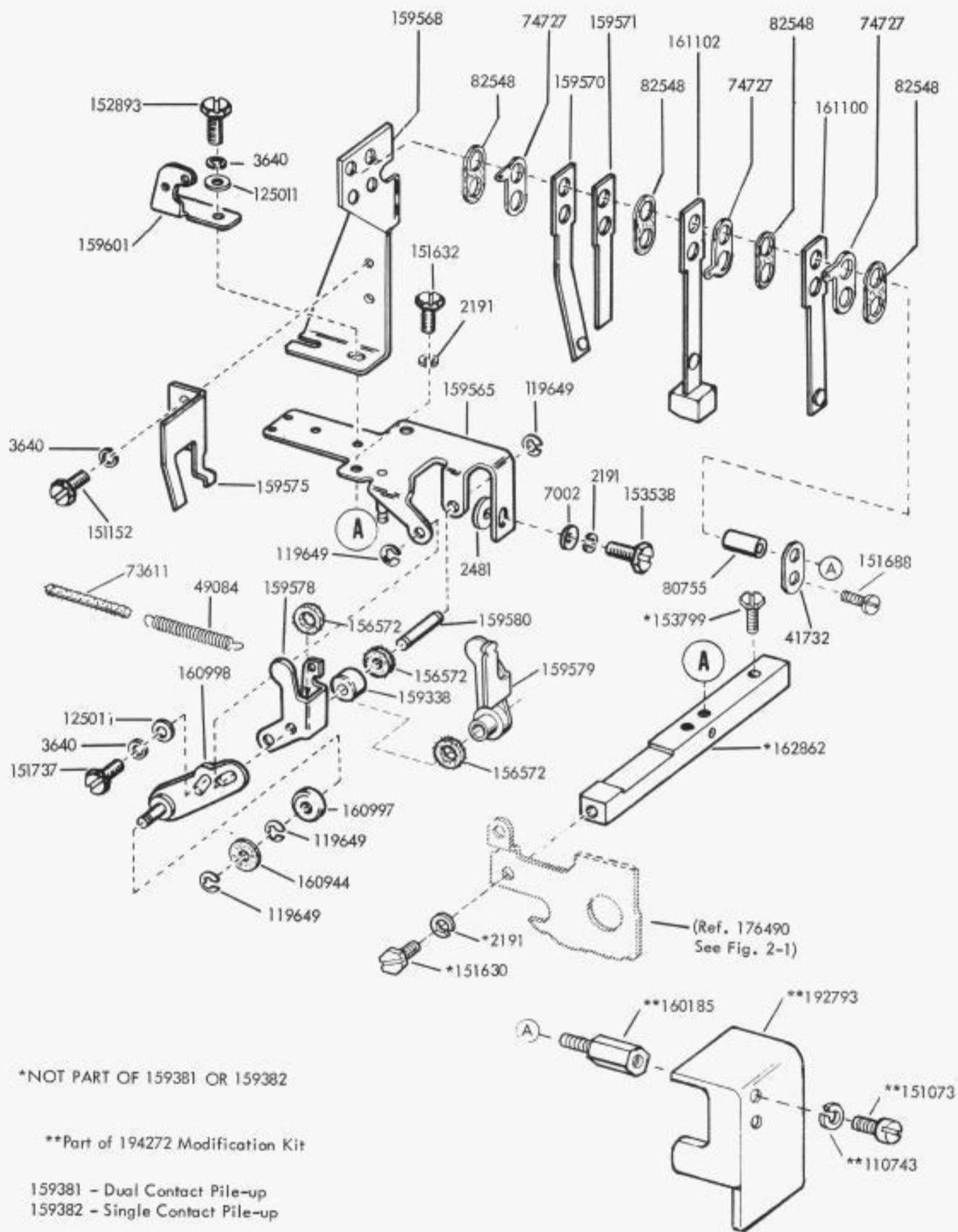


FIGURE 2-25. 159381 AND 159382 MODIFICATION KITS TO ADD AUXILIARY TIMING CONTACTS

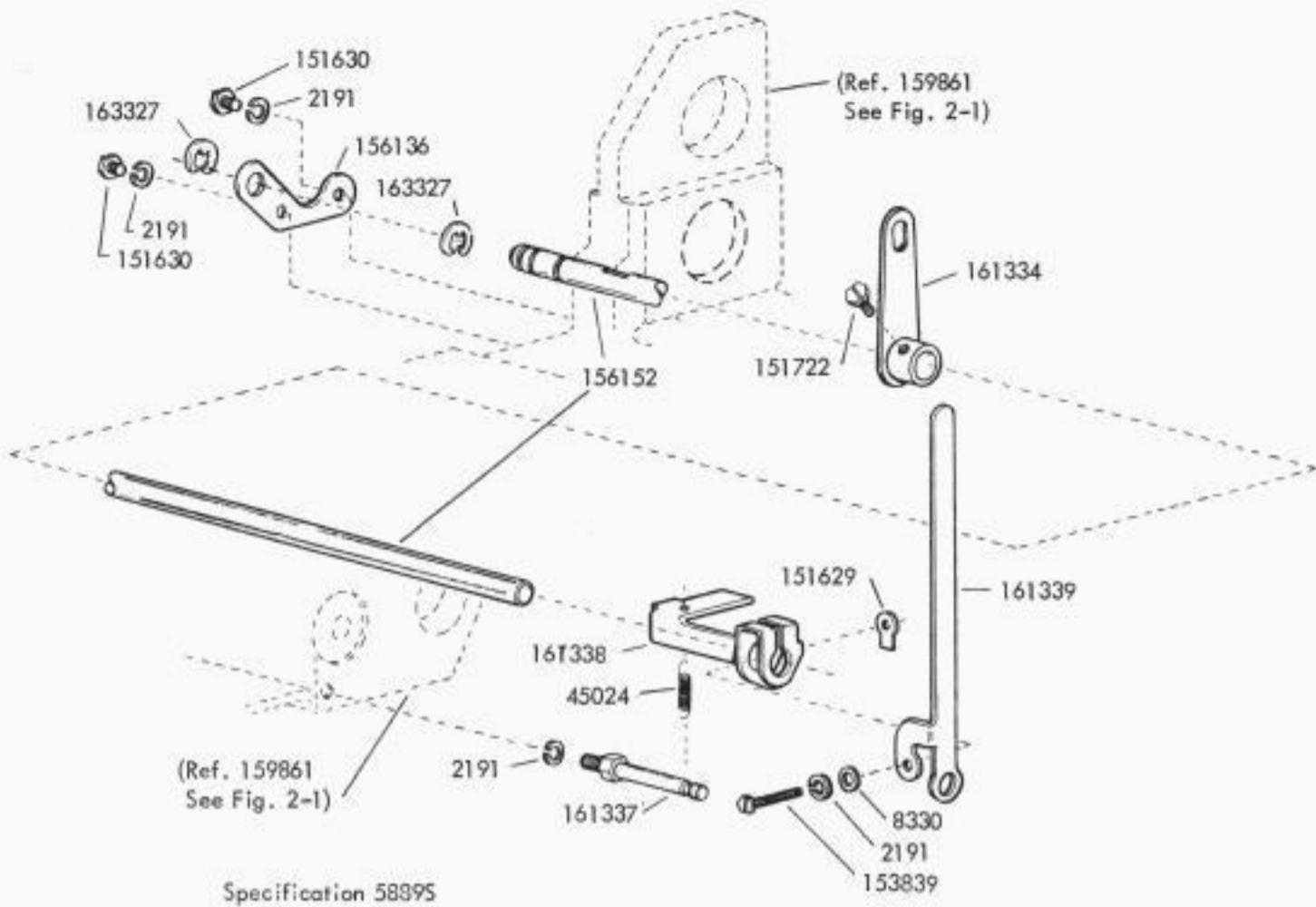


FIGURE 2-26. 161340 MODIFICATION KIT TO ADD MANUAL INTERFERING LETTERS TAPE FEED-OUT

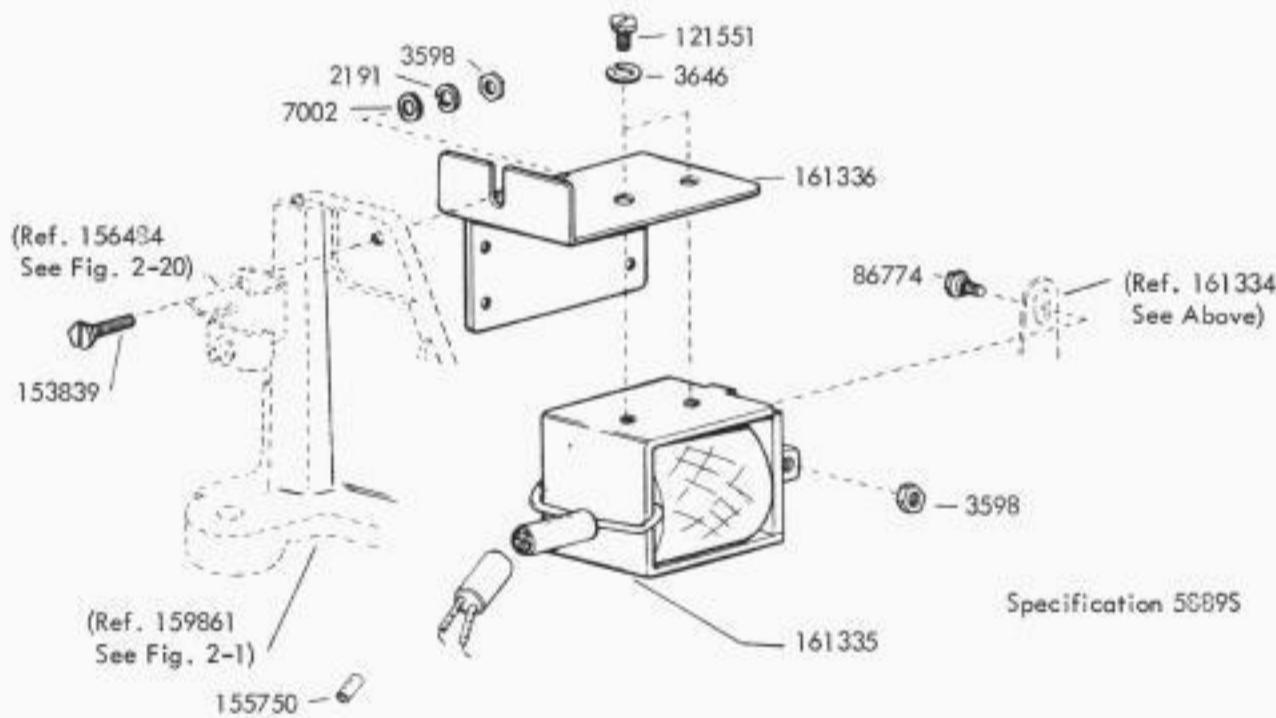
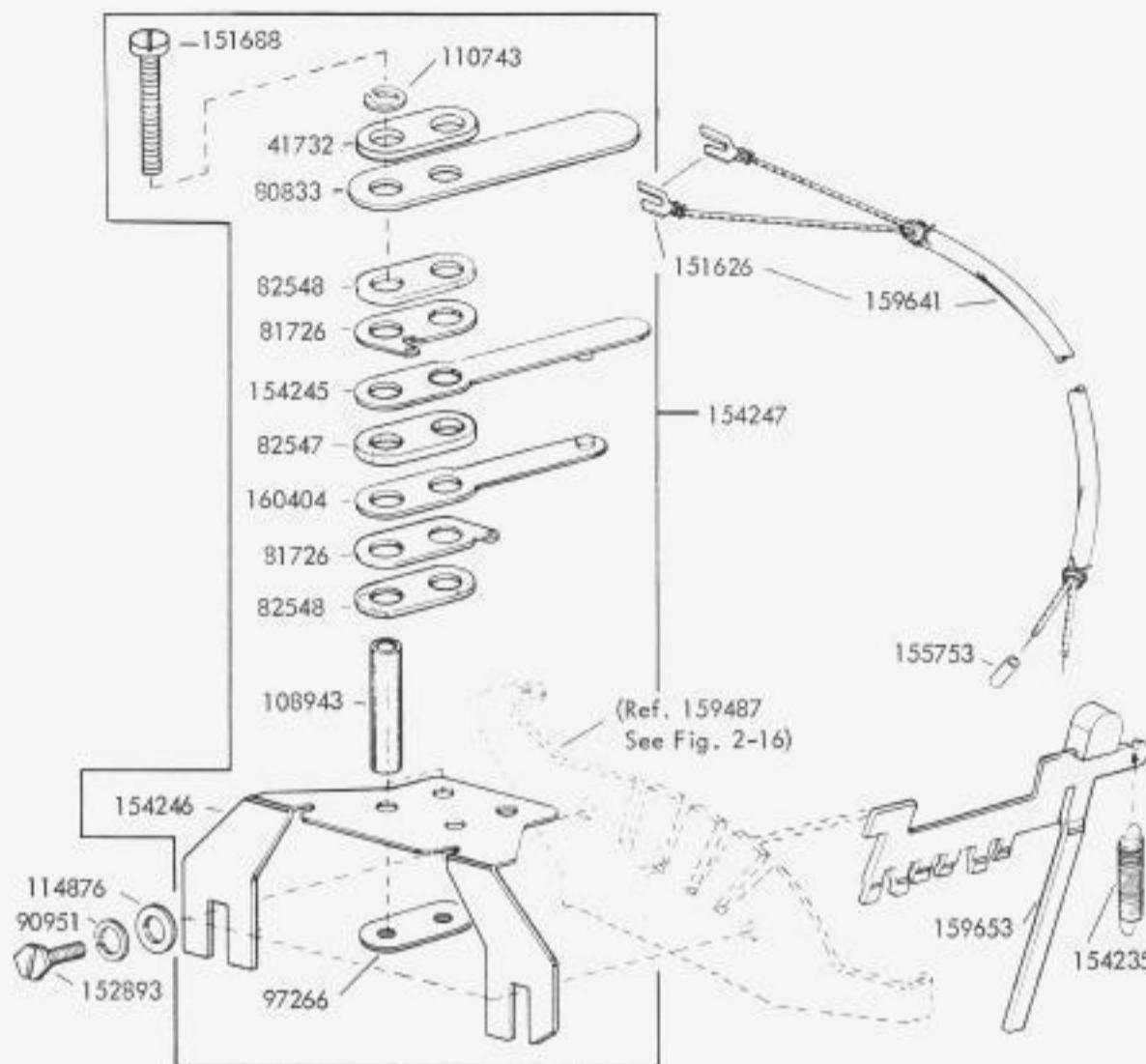


FIGURE 2-27. 161341 MODIFICATION KIT TO ADD SOLENOID OPERATION TO LETTERS FEED-OUT



Specification 5878S

FIGURE 2-28. 159360 MODIFICATION KIT TO ADD SIGNAL BELL CONTACT (ON UPPER CASE "S")

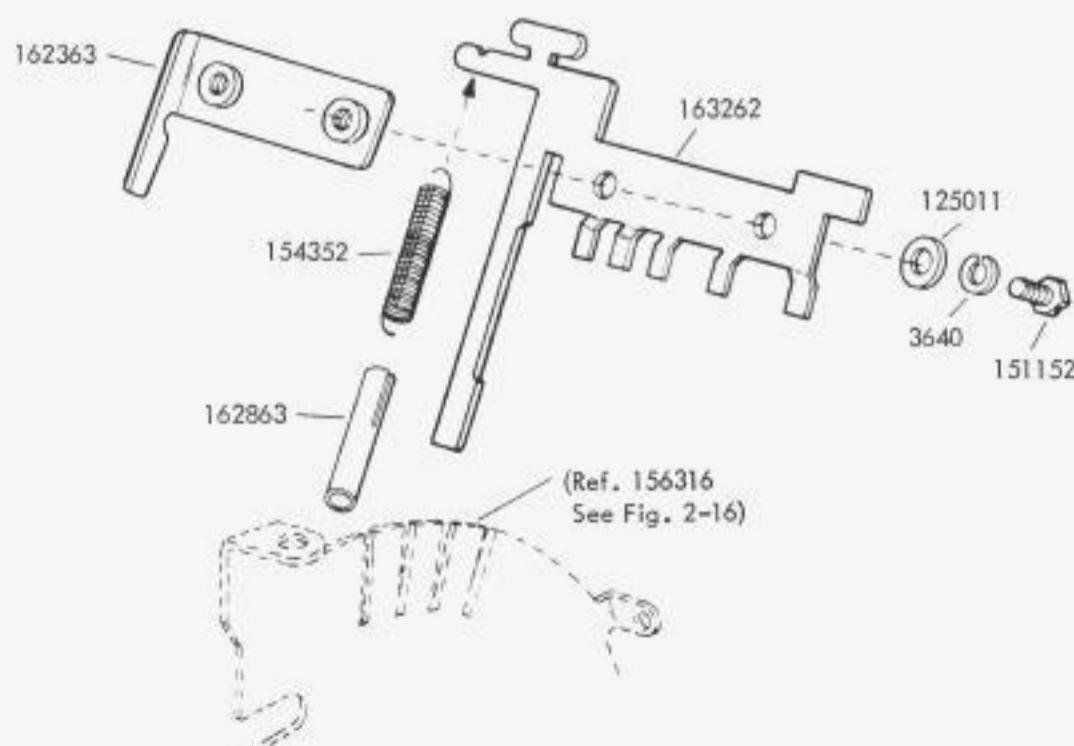
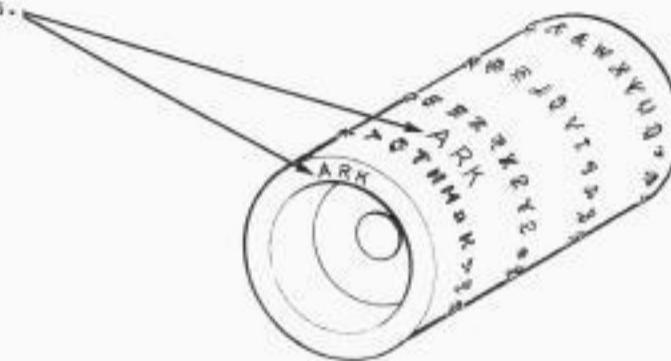


FIGURE 2-29. 162375 MODIFICATION KIT TO ADD "UNSHIFT ON SPACE"

Typewheel Code may be found in either of two locations.



- ① Bell System Arrangement A
- ② Bell System Arrangement B
- ③ Bell System Arrangement C
- ④ Bell System Arrangement D

TYPEWHEEL CHART							
Code	Part Number	Matching Arrangements		Code	Part Number	Matching Arrangements	
		Typebox	Keytop			Typebox	Keytop
Printing on Edge of Tape					Printing Between Feed-Holes		
ABW	175604			BRH	175707		
ACA	175608			BRL	175710		
ACF	175612			BRM ③	175711		
ADC	175632			BRP	175713		
ARA ①	173965	RA	ARK	BWA ①	173759		
ARC ③	173971	RC	ARL	BWB	173769		
ARE ④	173970	RE	ARE	BRB ②	175701		
ARG	173966	RG	ARG			WY	BRJ
ARJ	173968	RJ	ARW				
ARL	163676						
ARK	163675						
ARM	163677						
ARS	173969	RS	ARM				
ARW	163683	YM	BRU				
ARX	163682						
ARY	163681	YE	BRQ				
ARZ	163679	RZ	ARU				
AWA	173967	WY	BRJ				
AWB	163685						
AWD	163687						
AWE	163688						
AWF	163690						
AWS	175580						
AWU	175582						
AWX	175583						
AWY	175584						
AXW	175519						
AXZ	175521						
AYB	175523						
AYX	175546						
AYZ	175547						
AZG	175554						
AZJ	175556						
AZM	175559						
AZT	175565						
AZW	175568						

FIGURE 2-30. TYPEWHEELS

NUMERICAL INDEX - SECTION 2

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
224M	Coil, Magnet 2-22	90560	Washer, Flat 2-21	150043	Shoe, Secondary Clutch 2-7,2-8
1036	Nut (6-40 Hex) 2-10	90573	Spring 2-3,2-4	150044	Shoe, Primary Clutch 2-7,2-8
2034	Washer, Flat 2-22	90599	Shim (.008") 2-14	150048	Spring 2-2,2-5
2191	Washer, Lock 2-2 to 2-25	90606	Spring 2-2,2-18	150241	Spring 2-7,2-8
2199	Nut (7/16-32 Hex) 2-13	90615	Spring 2-20	150327	Roller, Ribbon 2-18,2-19
2407	Washer, Lock 2-13	90790	Washer, Flat 2-22	150356	Lever, Trip 2-2,2-5
2481	Washer, Flat 2-24	90951	Washer, Lock 2-16,2-26	150507	Spring 2-18
2669	Washer, Lock 2-3,2-4,2-6	91120	Spring 2-10	150830	Bushing, Shoulder 2-8
3438	Washer, Flat 2-6	92260	Washer, Lock 2-20	150841	Bearing 2-8
3598	Nut (6-40 Hex) 2-2 to 2-5,2-9 to 2-11,2-13 to 2-15,2-18,2-20,2-22, 2-25	93108	Washer, Lock 2-2,2-4	150923	Washer, Felt 2-11
3599	Nut (4-40 Hex) 2-9,2-12,2-14, 2-15,2-17,2-22	93356	Washer, Felt 2-2,2-5,2-10	150966	Insulator 2-6
3603	Nut (1/4-32 Hex) 2-2,2-4	95378	Spring 2-20	150990	Washer, Felt 2-12
3606	Nut (6-40 Hex) 2-9,2-20	97266	Plate, Clamp 2-26	151073	Screw (4-40 x 5/32 Fil) 2-2,2-5, 2-11,2-21,2-24
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159519	Bushing, Drive Bail 2-14	159976	Armature 2-22	163291	Modification Kit to Add Non-ed- justable Tape Guide 2-10
159522	Bushing, Drive Bail 2-14	159977	Hinge 2-22	163327	Ring, Retaining 2-25
159523	Bail, Oscillating Drive 2-14,2-15	159978	Shaft 2-22	163429	Screw, Shoulder (6-40) 2-20
159525	Bracket, Axial Mounting 2-13, 2-14,2-15	159979	Arm, Non-Repeat 2-22	163675	Typewheel (ARK) 2-27
159526	Link, Drive 2-15,2-20	159980	Post, Spring 2-22		
159528	Bar, No. 5 Push 2-12				

NUMERICAL INDEX - SECTION 2 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
163676	Typewheel (ARL) 2-27	172983	Bracket, Spring 2-11	175583	Typewheel (AWX) 2-27
163677	Typewheel (ARM) 2-27	173200	Sleeve, Bearing 2-7	175584	Typewheel (AWY) 2-27
163679	Typewheel (ARZ) 2-27	173203	Sleeve, Bearing 2-8	175604	Typewheel (ABW) 2-27
163681	Typewheel (ARY) 2-27	173338	Modification Kit to Provide New Style Shaft 2-8	175608	Typewheel (ACA) 2-27
163682	Typewheel (ARX) 2-27	173340	Collar 2-7,2-8	175612	Typewheel (ACF) 2-27
163683	Typewheel (ARW) 2-27	173754	Spacer, Typewheel 2-13	175632	Typewheel (ADC) 2-27
163685	Typewheel (AWB) 2-27	173755	Guide, Ribbon 2-13	175701	Typewheel (BRB) 2-27
163687	Typewheel (AWD) 2-27	173756	Lever, Print Hammer 2-13	175707	Typewheel (BRH) 2-27
163688	Typewheel (AWE) 2-27	173759	Typewheel (BWA) 2-27	175710	Typewheel (BRL) 2-27
163690	Typewheel (AWF) 2-27	173769	Typewheel (BWB) 2-27	175711	Typewheel (BRM) 2-27
164511	Lever W/Hub 2-10	173775	Shaft, Typewheel 2-13	175713	Typewheel (BRP) 2-27
164513	Pawl, Feed 2-11	173965	Typewheel (ARA) 2-27	176138	Modification Kit To Provide a Model 28 Typing Reperforator with a Resilient Print Hammer 2-13
164514	Guide, Tape 2-9	173966	Typewheel (ARG) 2-27	176252	Washer, Flat 2-3
164515	Spring, Torsion 2-10	173967	Typewheel (AWA) 2-27	176489	Guide 2-2,2-3
164521	Plate W/Studs 2-19	173968	Typewheel (ARJ) 2-27	176490	Bracket W/Hubs 2-2,2-5,2-24
164525	Post, Spring 2-19	173969	Typewheel (ARS) 2-27	176658	Motor - 115 Volt, 60 Cycle, A.C. 2-6
164526	Slide W/Post 2-19	173970	Typewheel (ARE) 2-27	176679	Capacitor (3.3MFD) 2-6
164528	Bushing 2-19	173971	Typewheel (ARC) 2-27	176686	Frame, Perforator 2-6
164529	Lever W/Pins, Ribbon Reverse 2-19	173977	Shaft, Print Hammer 2-13	176687	Bracket, Motor 2-6
164530	Bushing 2-19	173978	Spring 2-13	176688	Plate, Mounting 2-6
164531	Pawl, Check 2-19	173979	Head, Hammer 2-13	176689	Bracket, Mounting 2-6
164532	Pawl W/Hub, Feed 2-19	173980	Lever, Print Hammer 2-13	176749	Gear, Helical (14 T) 2-6
164535	Shaft Assembly, Ribbon Ratchet (Right) 2-19	173981	Accelerator W/Stud, Hammer 2-13	176823	Bushing 2-6
164538	Shaft Assembly, Ribbon Ratchet (Left) 2-19	175519	Typewheel (AXW) 2-27	178178	Lever, Adjustable Extension 2-19
164539	Spring, Ratchet 2-19	175521	Typewheel (AXZ) 2-27	179573	Nut (6-40 Hex) 2-11
164540	Detent 2-19	175523	Typewheel (AYB) 2-27	179579	Decalcomania, Arrow 2-19
164541	Arm, Ribbon Drive 2-19	175546	Typewheel (AYX) 2-27	192661	Post (6-40) 2-3,2-4
164543	Lever, Adjustable Extension 2-19	175547	Typewheel (AYZ) 2-27	192709	Link W/Hub 2-3,2-4
164964	Washer, Felt 2-19	175554	Typewheel (AZG) 2-27	192793	Guard 2-24
164965	Washer, Flat 2-19	175556	Typewheel (AZJ) 2-27	192849	Bar, No. 2 Axial Push 2-15
170778	Block, Punch Assembly 2-9	175559	Typewheel (AZM) 2-27	194272	Modification Kit To Provide Oil Guard for the Auxiliary Contacts 2-24
172638	Screw (6-40 x 9/32 Hex) 2-9	175565	Typewheel (AZT) 2-27		
172640	Modification Kit To Add Manual Backspace to Units Containing the Model 28 Fully Perforated Tape Punch 2-21	175568	Typewheel (AZW) 2-27		
		175580	Typewheel (AWS) 2-27		
		175582	Typewheel (AWV) 2-27		

SECTION 3

MOTOR UNIT (LMU)

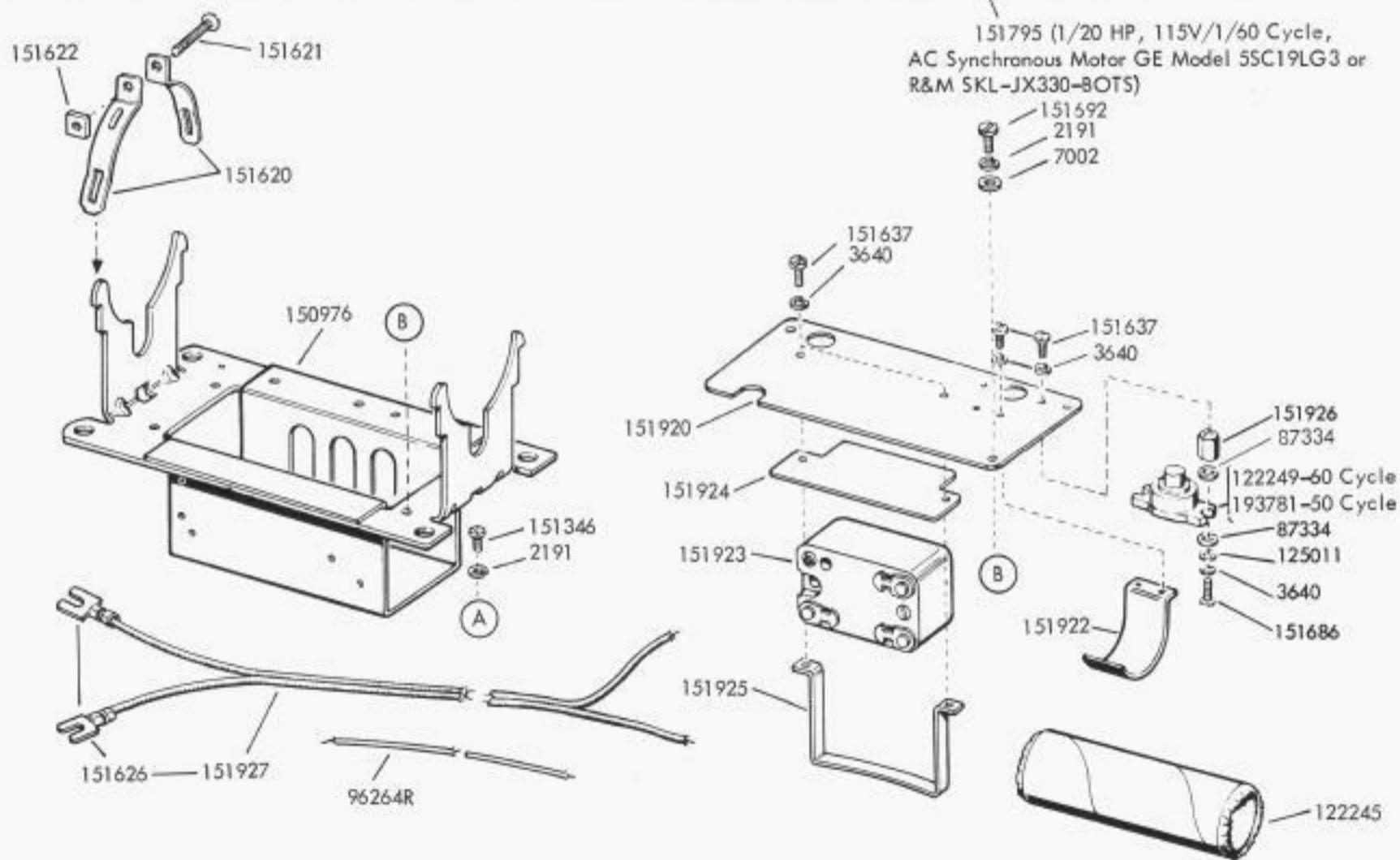
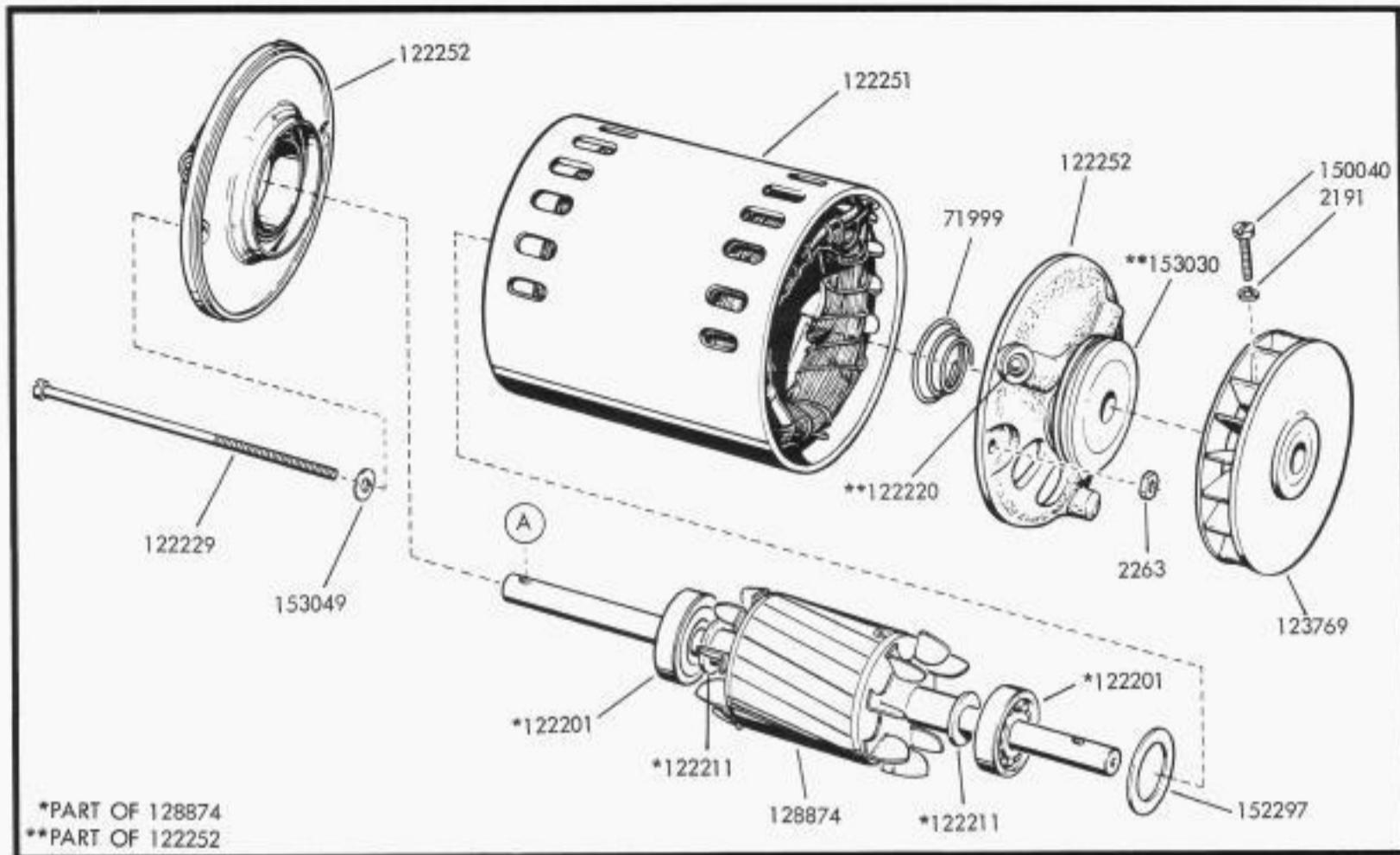
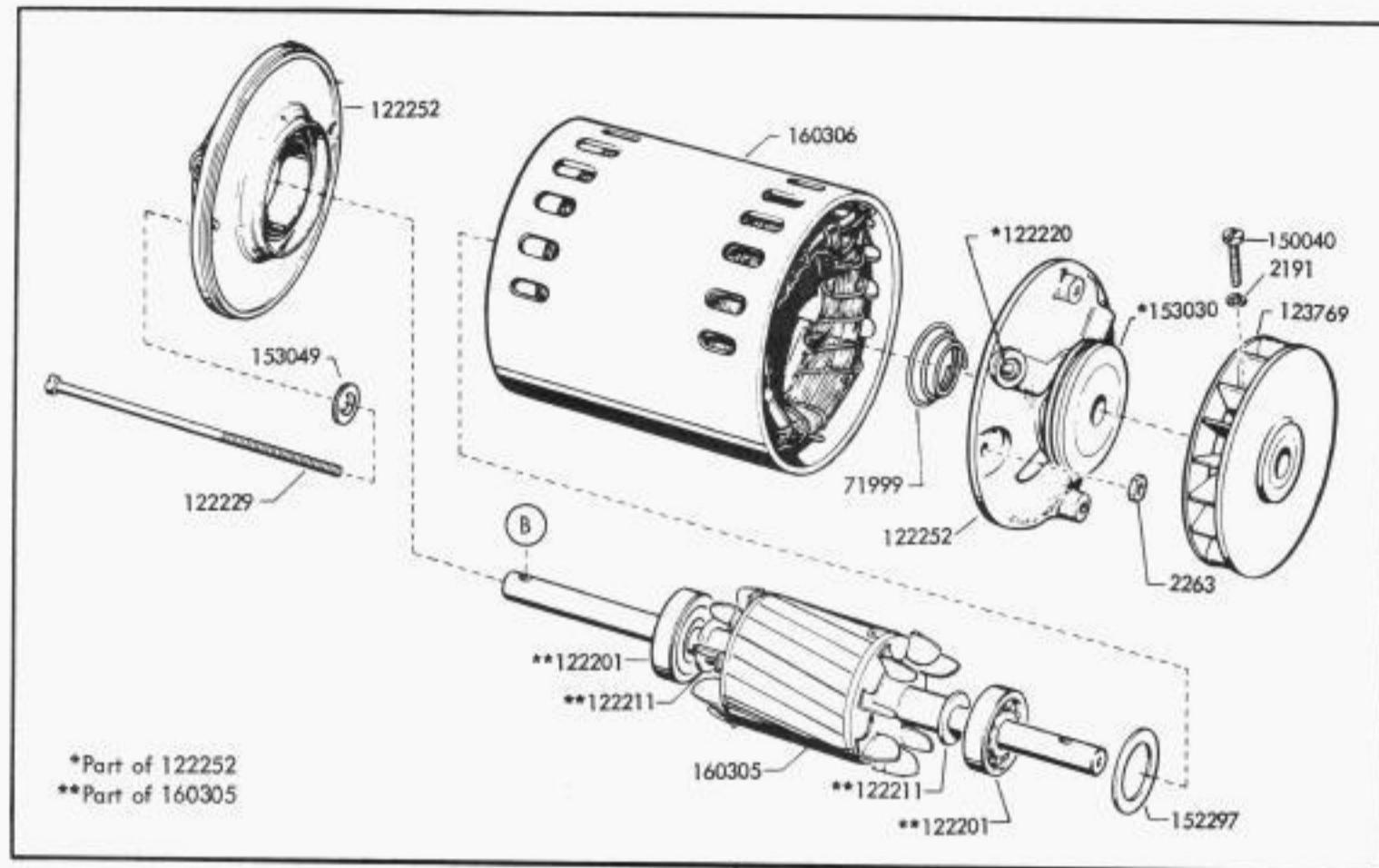


FIGURE 3-1. SYNCHRONOUS MOTOR UNIT (LMU3, 60 CYCLE) (LMU38, 50 CYCLE)



159739 (1/12 HP, 115V/1/60 Cycle
AC Synchronous Motor GE Model 55C19LG10)

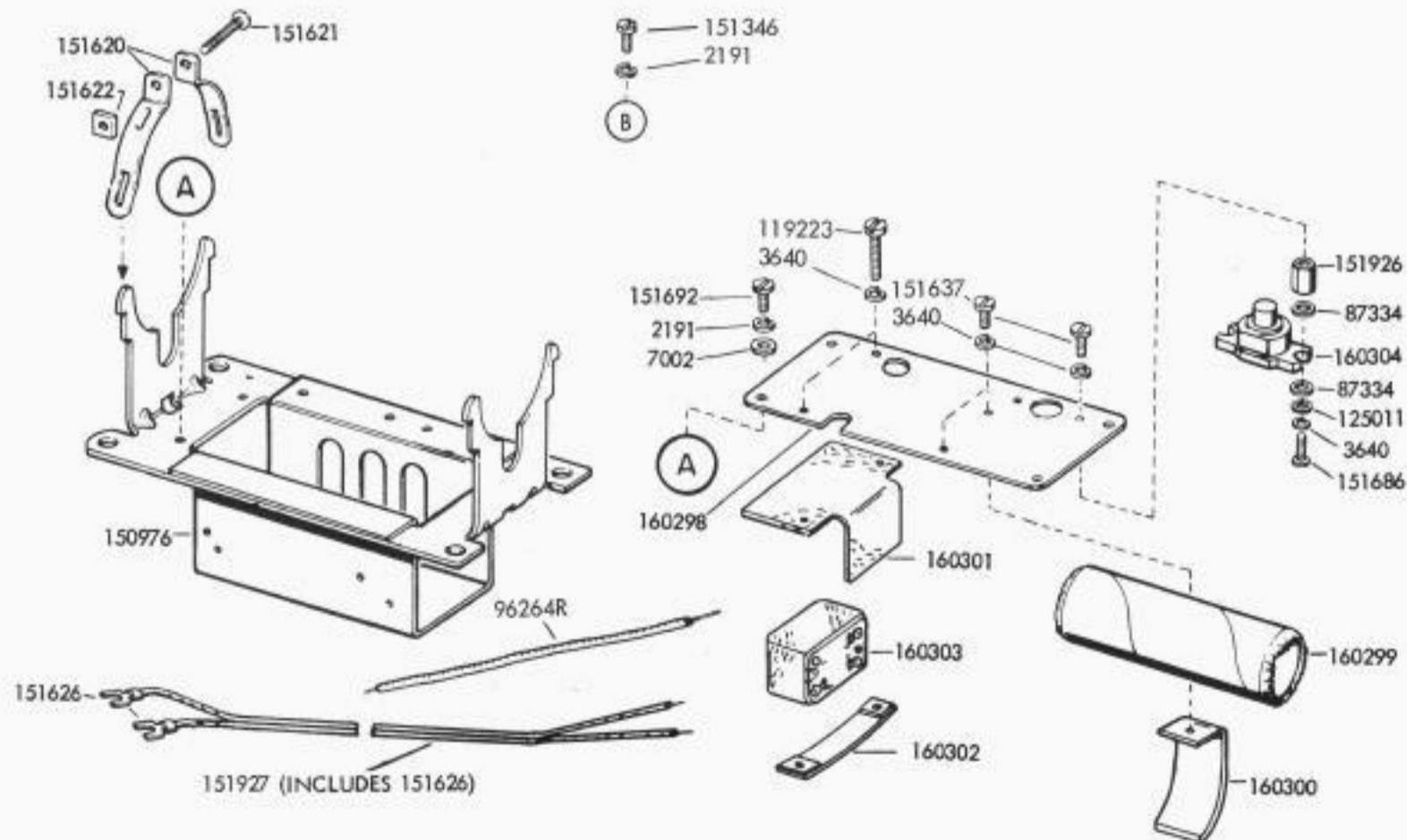


FIGURE 3-2. SYNCHRONOUS MOTOR UNIT (LMU12)

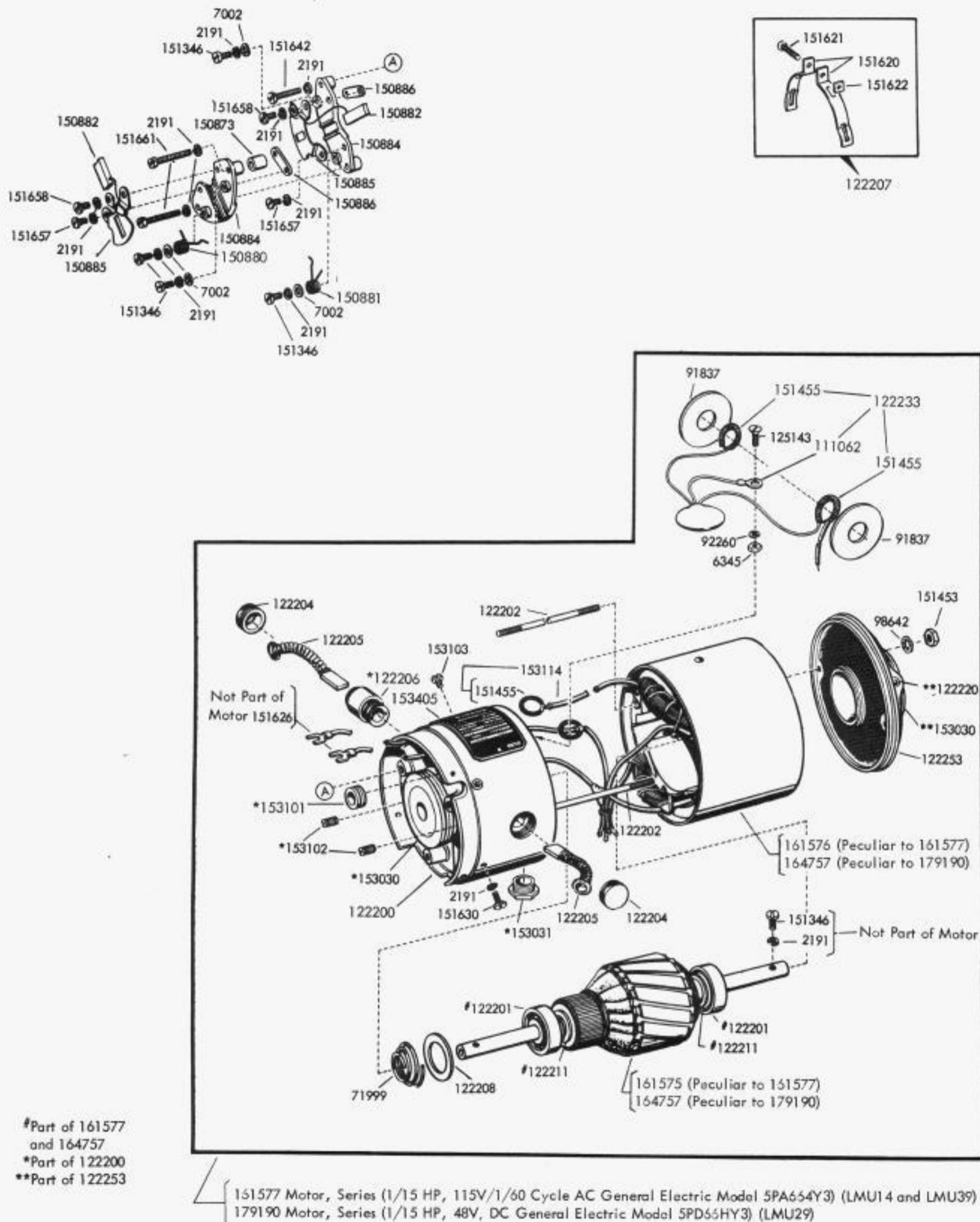
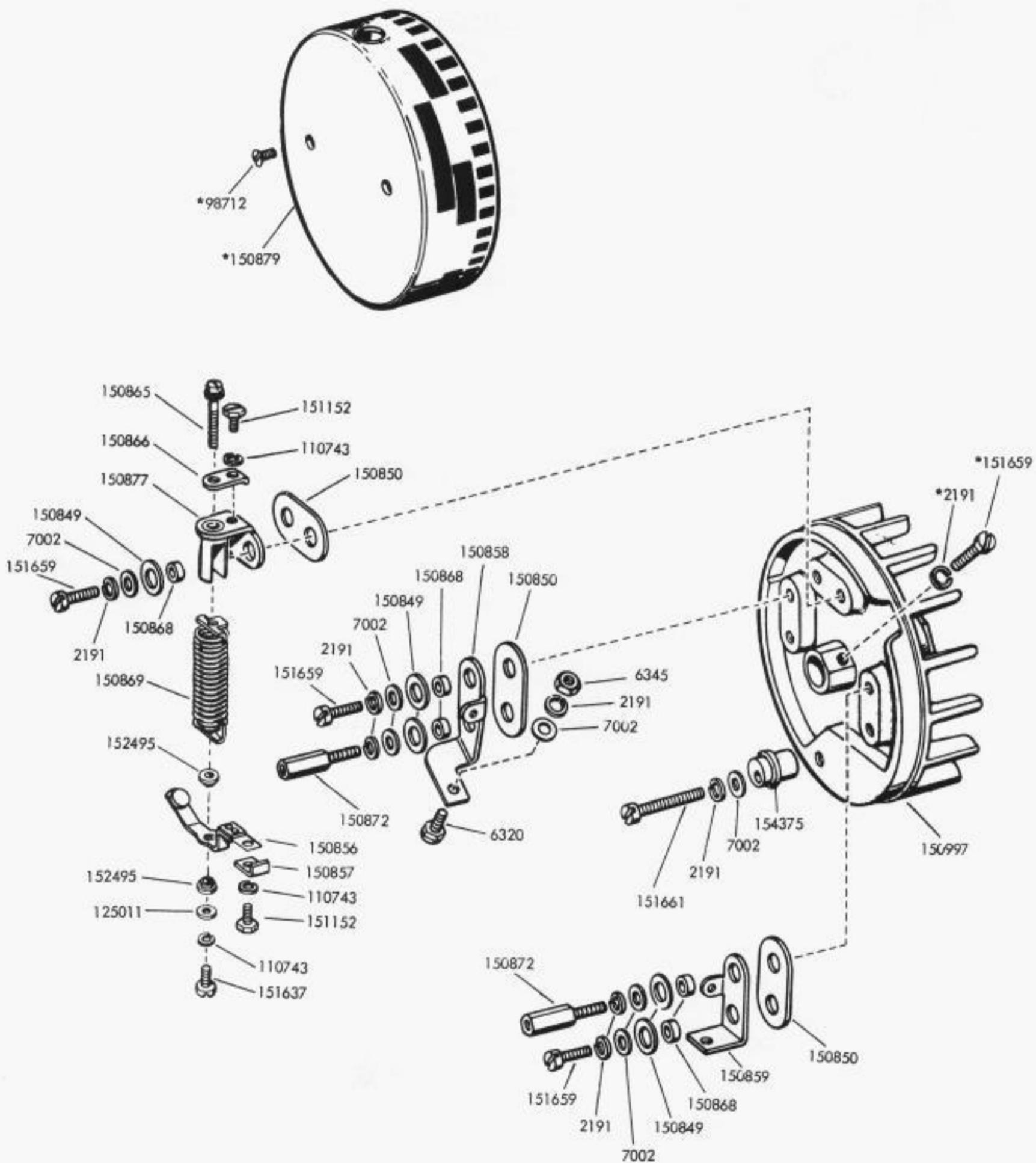
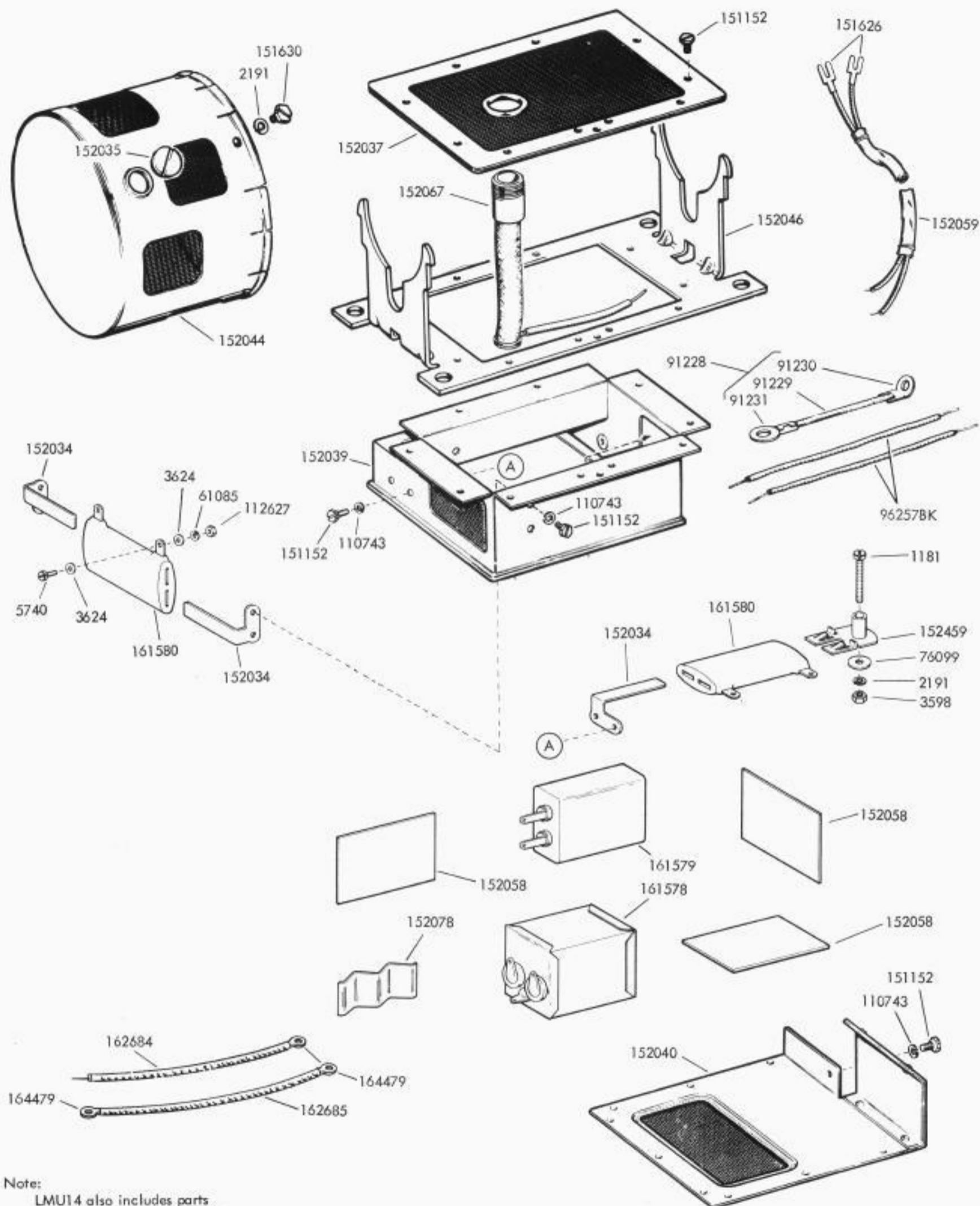


FIGURE 3-3. SERIES MOTOR (LMU14, LMU29 AND LMU39)



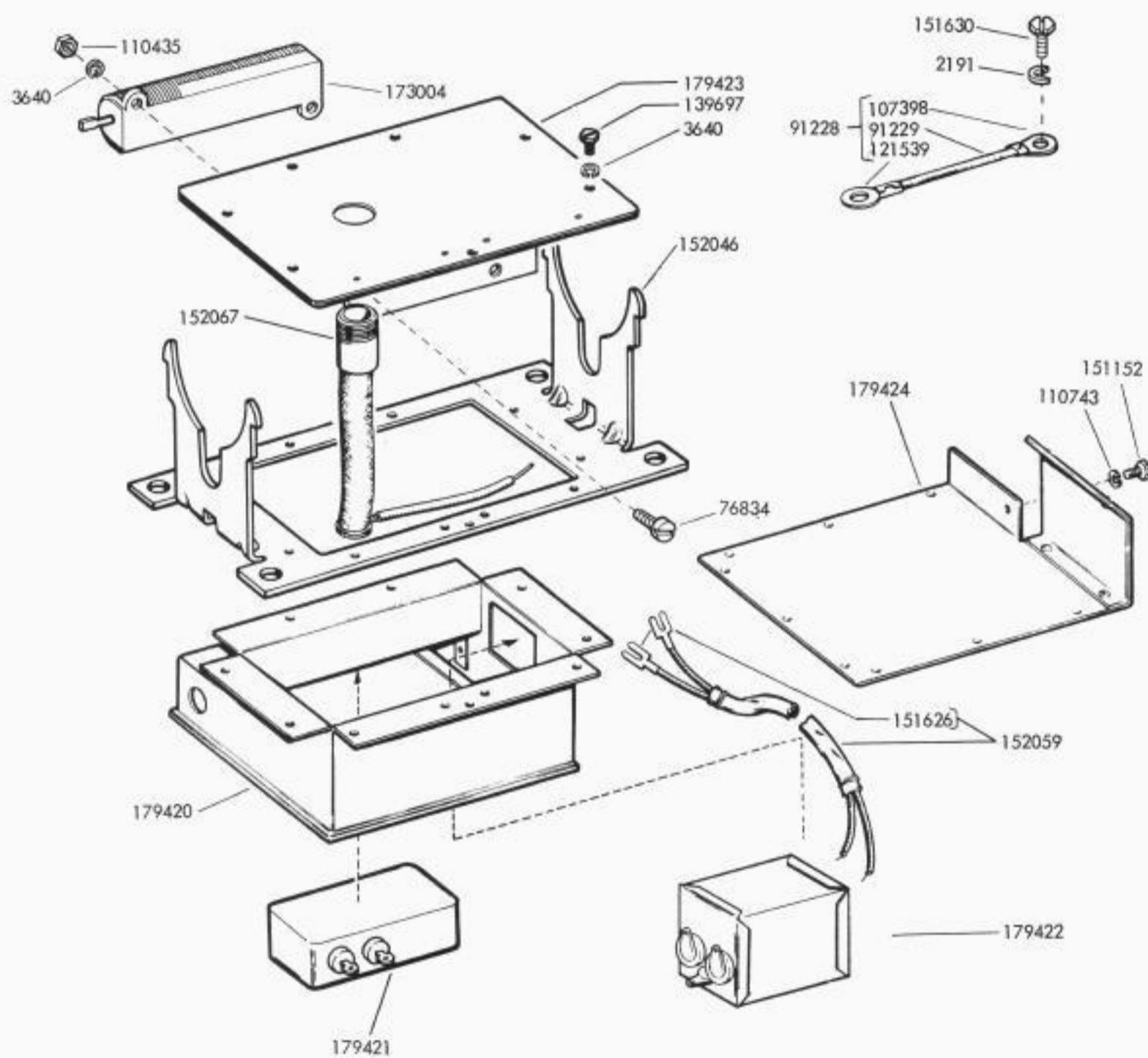
*Not Part of 150845

FIGURE 3-4. 150845 GOVERNOR ASSEMBLY (LMU14, LMU29 AND LMU39)

**Note:**

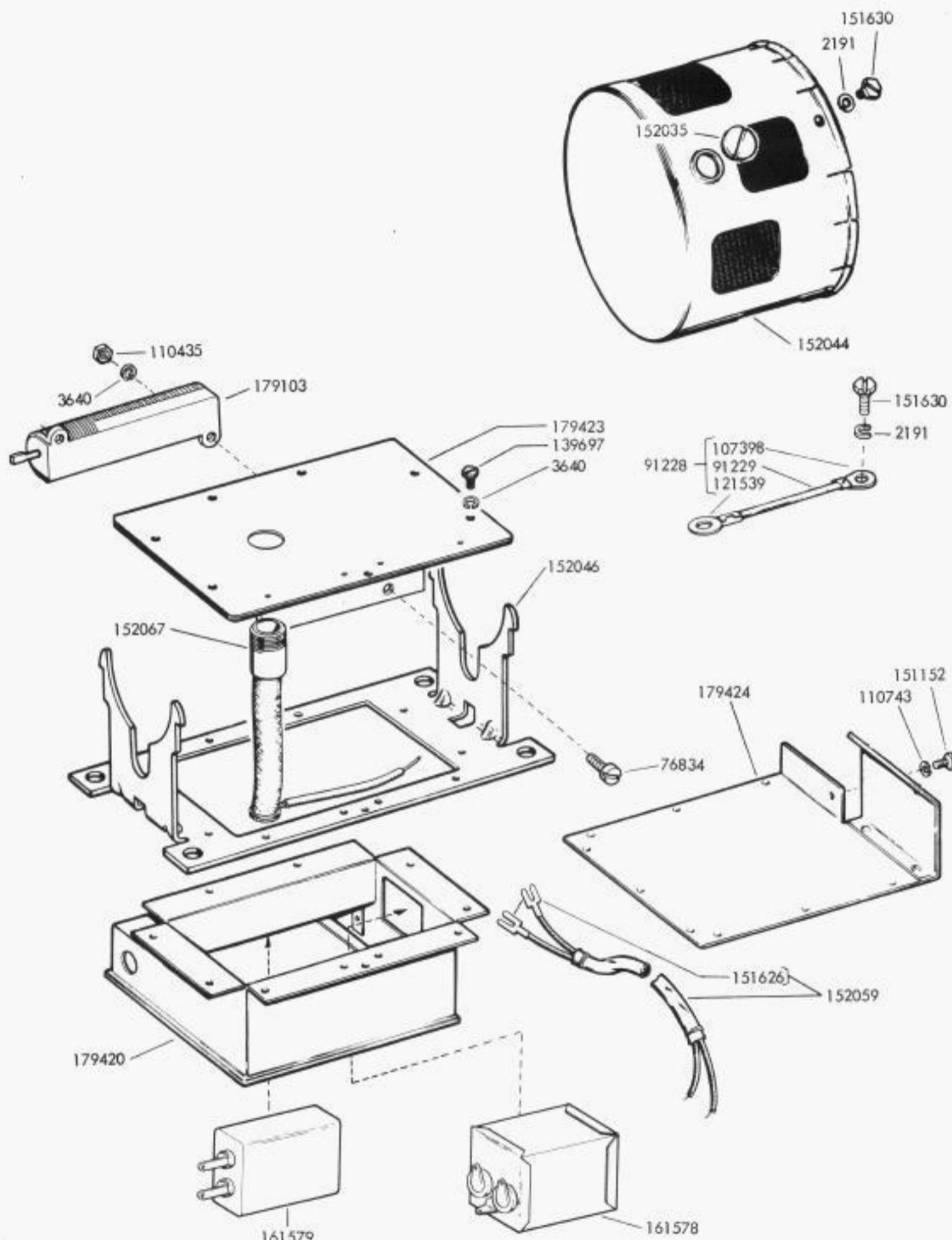
LMU14 also includes parts found on Figures 3-3 and 3-4.

FIGURE 3-5. SERIES MOTOR UNIT MOUNTING PARTS (LMU14, 110V, AC)

**Note:**

LMU29 also includes parts found on Figures 3-3 and 3-4.

FIGURE 3-6. SERIES MOTOR UNIT MOUNTING PARTS (LMU29, 48V DC)



Note:

LMU39 also includes parts found on Figures 3-3 and 3-4.

FIGURE 3-7. SERIES MOTOR UNIT MOUNTING PARTS (LMU39, 110V, AC)

NUMERICAL INDEX - SECTION 3

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1181	Screw (6-40 x 11/16 Fil) 3-6	125143	Screw (6-32 x 3/8 Flat) 3-4	151924	Insulator, Relay 3-2
2191	Washer, Lock 3-2 to 3-8	128874	Rotor, Motor 3-2	151925	Clamp, Relay 3-2
2263	Nut (8-32 Hex) 3-2,3-3	139697	Screw (4-40 x 9/32 Fil) 3-7,3-8	151926	Nut (4-40 Hex) 3-2
3598	Nut (6-40 Hex) 3-6	150040	Screw (6-40 x 5/8 Fil) 3-2,3-3	151927	Cable, Motor Unit 3-2,3-3
3624	Washer, Flat 3-6	150845	Governor Assembly 3-5	152034	Bracket, Resistor Mounting 3-6
3640	Washer, Lock 3-2,3-3,3-7,3-8	150849	Washer, Insulating 3-5	152035	Plug 3-6,3-8
5740	Screw (2-56 x 1/4 Fil) 3-6	150850	Plate, Insulating 3-5	152037	Cover, Container 3-6
6320	Screw, Contact (6-32) 3-5	150856	Arm, Movable Contact 3-5	152039	Container 3-6
6345	Nut (6-32 Hex) 3-4,3-5	150857	Clamp, Contact Arm 3-5	152040	Lid, Container 3-6
7002	Washer, Flat 3-2 to 3-5	150858	Bracket, Contact 3-5	152044	Cover, Governor 3-6,3-8
61085	Washer, Lock 3-6	150859	Bracket, Contact Arm Mounting 3-5	152046	Bracket, Motor Mounting 3-6 to 3-8
71999	Spring, Motor Thrust 3-2 to 3-4	150865	Screw, Clamping (4-40 x 1") 3-5	152058	Separator 3-6
76099	Washer, Flat 3-6	150866	Clamp, Adjusting 3-5	152059	Cable Assembly 3-6 to 3-8
76834	Screw (4-40 x 3/8 Flat) 3-7,3-8	150868	Bushing, Insulating 3-5	152067	Nipple 3-6 to 3-8
87334	Washer, Insulating 3-2,3-3	150869	Spring Assembly 3-5	152078	Spring, Separator 3-6
91228	Strap (2-1/2") 3-6 to 3-8	150872	Stud, Cover Mounting 3-5	152297	Washer, Bearing 3-2,3-3
91229	Wire (2") 3-6 to 3-8	150873	Collar, Spacing 3-4	152495	Bushing 3-5,3-6
91230	Terminal 3-6	150877	Bracket, Guide 3-5	153030	Mount, Vibration 3-2 to 3-4
91231	Terminal, Wire 3-6	150879	Cover, Governor 3-5	153031	Bushing, Lead 3-4
91837	Washer, Fibre 3-4	150880	Spring, Brush 3-4	153049	Washer, Fiber 3-2,3-3
92260	Washer, Lock 3-4	150881	Spring, Brush 3-4	153101	Grommet, Rubber 3-4
96257BK	Wire (2-3/4" Black) 3-6	150882	Brush Assembly 3-4	153102	Screw, Set (8-32) 3-4
96264R	Wire (5" Red) 3-2,3-3	150884	Mounting, Brush 3-4	153103	Screw, Self-Tapping (4-40) 3-4
98642	Washer, Lock 3-4	150885	Plate, Brush 3-4	153114	Wire Assembly 3-4
98712	Screw (4-40 x 1/4 Flat) 3-5	150886	Plate, Clamp 3-4	153405	Plate, Identification 3-4
107398	Terminal 3-7,3-8	150976	Bracket Assembly, Motor 3-2,3-3	154375	Backstrap Assembly 3-5
110435	Nut (4-40 Hex) 3-7,3-8	150997	Fan Assembly 3-5	159739	Motor, Synchronous (115 Volt) 3-3
110743	Washer, Lock 3-5 to 3-8	151152	Screw (4-40 x 3/16 Hex) 3-5 to 3-8	160298	Plate, Mounting 3-3
111062	Terminal 3-4	151346	Screw (6-40 x 3/8 Fil) 3-2 to 3-4	160299	Capacitor (170 - 226 MFD) 3-3
112627	Nut (2-56 Hex) 3-6	151453	Nut (10-32 Hex) 3-4	160300	Clamp 3-3
119223	Screw (4-40 x 1-15/32 Fil) 3-3	151455	Spring, Helical Clip 3-4	160301	Plate, Insulating 3-3
121539	Terminal 3-7,3-8	151620	Strap, Mounting 3-2 to 3-4	160302	Plate, Nut 3-3
122200	Shield Assembly, End 3-4	151621	Screw (6-32 x 3/4 Rd) 3-2 to 3-4	160303	Relay 3-3
122201	Bearing, Ball 3-2 to 3-4	151622	Nut (6-32 Square) 3-2 to 3-4	160304	Switch, Thermostatic 3-3
122202	Stud (10-32) 3-4	151626	Terminal 3-2 to 3-4,3-6 to 3-8	160305	Rotor, Motor 3-3
122204	Cap, Brush 3-4	151630	Screw (6-40 x 1/4 Hex) 3-4,3-6 to 3-8	161576	Stator 3-4
122205	Brush W/Spring 3-4	151637	Screw (4-40 x 1/4 Fil) 3-2,3-3,3-5	161577	Motor, Series (115 Volt) 3-4
122206	Holder, Brush 3-4	151642	Screw (6-40 x 3/4 Fil) 3-4	161578	Suppressor, Electrical Noise 3-6,3-8
122207	Strap Assembly, Mounting 3-4	151657	Screw (6-40 x 1/4 Fil) 3-4	161579	Capacitor (1/2 MFD) 3-6,3-8
122208	Washer, Flat 3-4	151658	Screw (6-40 x 5/16 Fil) 3-4	161580	Resistor (500 Ohm) 3-6
122211	Washer, Pull 3-2 to 3-4	151659	Screw (6-40 x 1/2 Fil) 3-5	162684	Wire (2-3/4" White) 3-6
122220	Oiler, Ball 3-2 to 3-4	151661	Screw (6-40 x 1 Fil) 3-4,3-5	162685	Wire (4" White) 3-6
122229	Bolt (8-32 x 4-11/16) 3-2,3-3	151686	Screw (4-40 x 3/8 Fil) 3-2,3-3	164479	Terminal 3-6
122233	Capacitor Assembly 3-4	151692	Screw (6-40 x 3/16 Fil) 3-2,3-3	164757	Armature Assembly, Motor 3-4
122245	Capacitor (43 to 48 MFD) 3-2	151795	Motor, A.C. Synchronous (115 Volt) 3-2	172938	Insulator 3-6
122249	Switch, Thermostatic 3-2	151920	Plate, Relay 3-2	173004	Resistor (100 Ohm) 3-7
122251	Stator, Motor 3-2	151922	Clamp, Capacitor 3-2	179103	Resistor (250 Ohm) 3-8
122252	Shield Assembly, End 3-2,3-3	151923	Relay 3-2	179190	Motor, Series (115 Volt) 3-4
122253	Shield Assembly, End 3-4			179420	Container 3-7,3-8
123769	Fan 3-2,3-3			179421	Capacitor (1 MFD) 3-7
125011	Washer, Flat 3-2,3-3,3-5			179422	Suppressor, Electrical Noise 3-7
				179423	Plate W/Bracket 3-7,3-8
				179424	Lid W/Insulator 3-7,3-8

SECTION 4

TRANSMITTER DISTRIBUTOR BASE (LCXB)

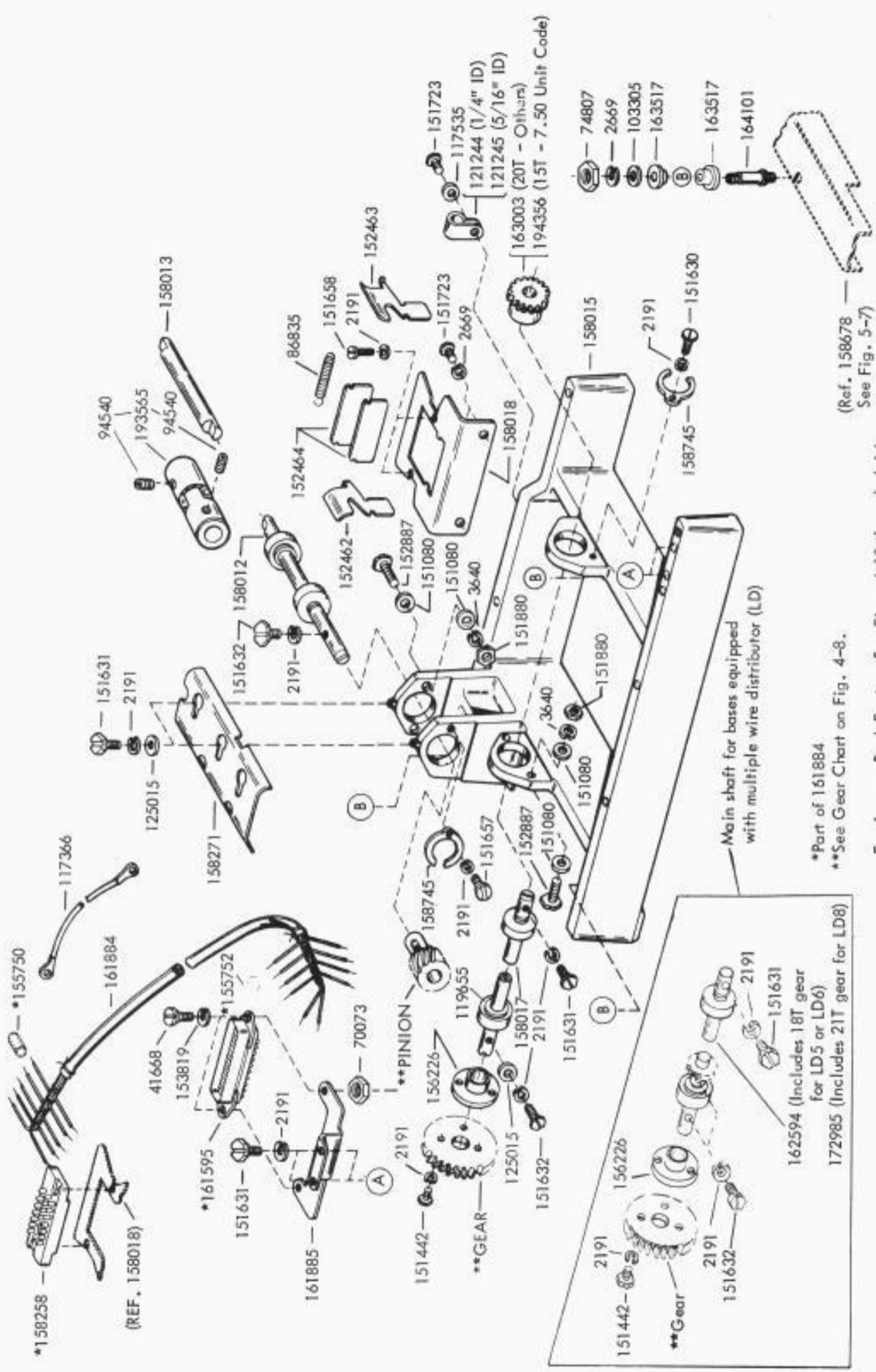


FIGURE 4-1. TRANSMITTER DISTRIBUTOR BASE

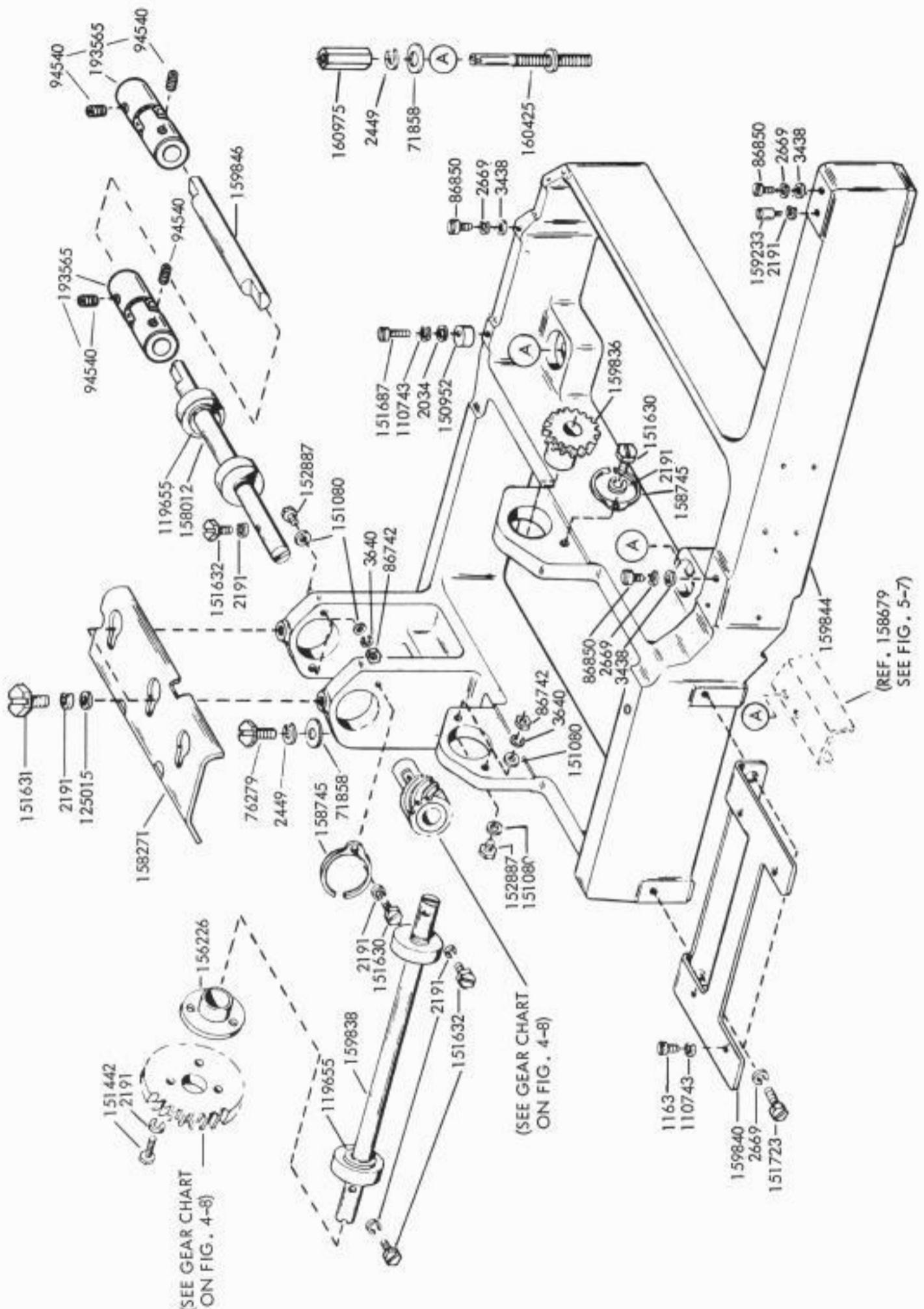


FIGURE 4-2. TRANSMITTER DISTRIBUTOR BASE

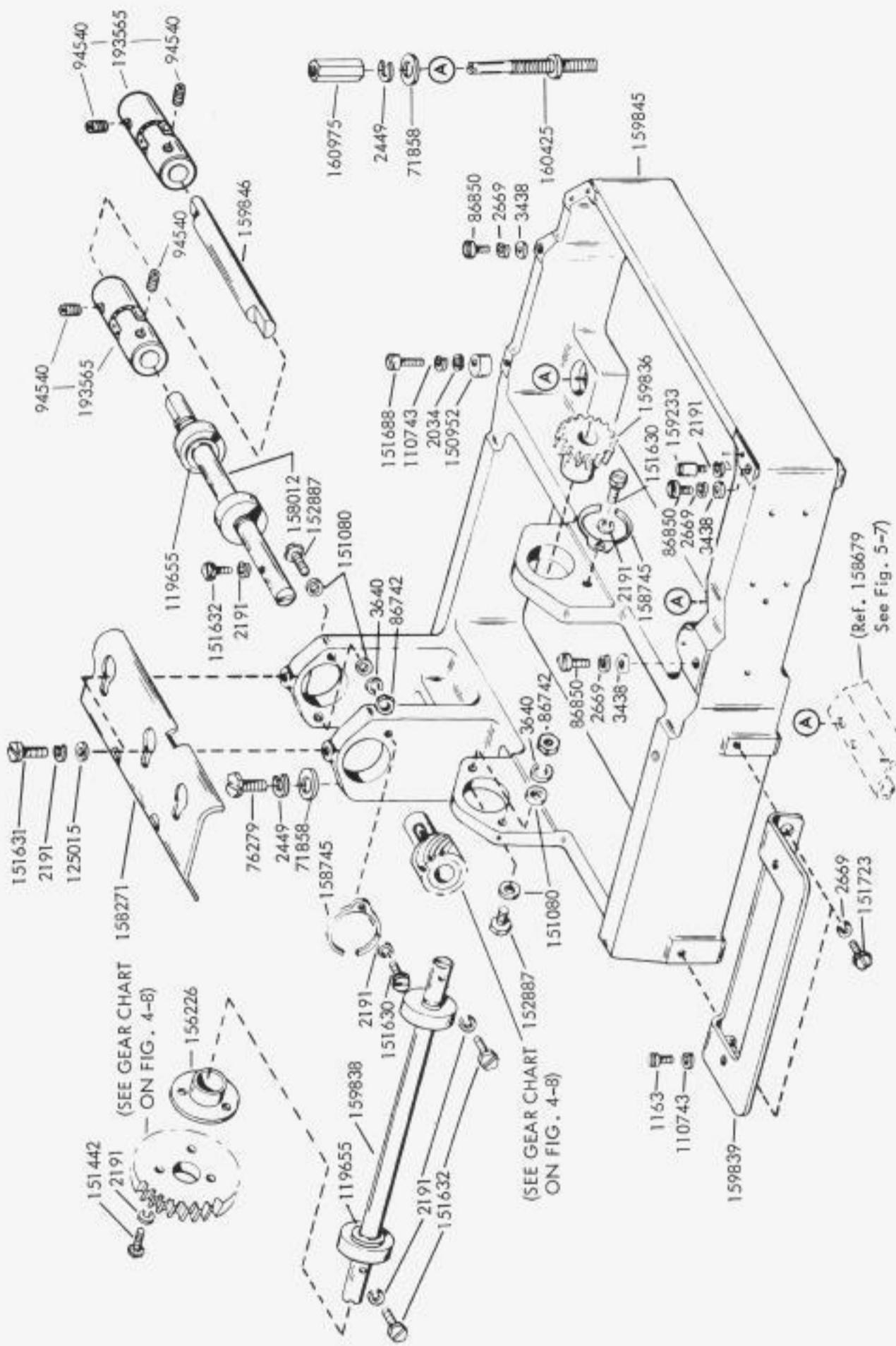


FIGURE 4-3. TRANSMITTER DISTRIBUTOR BASE

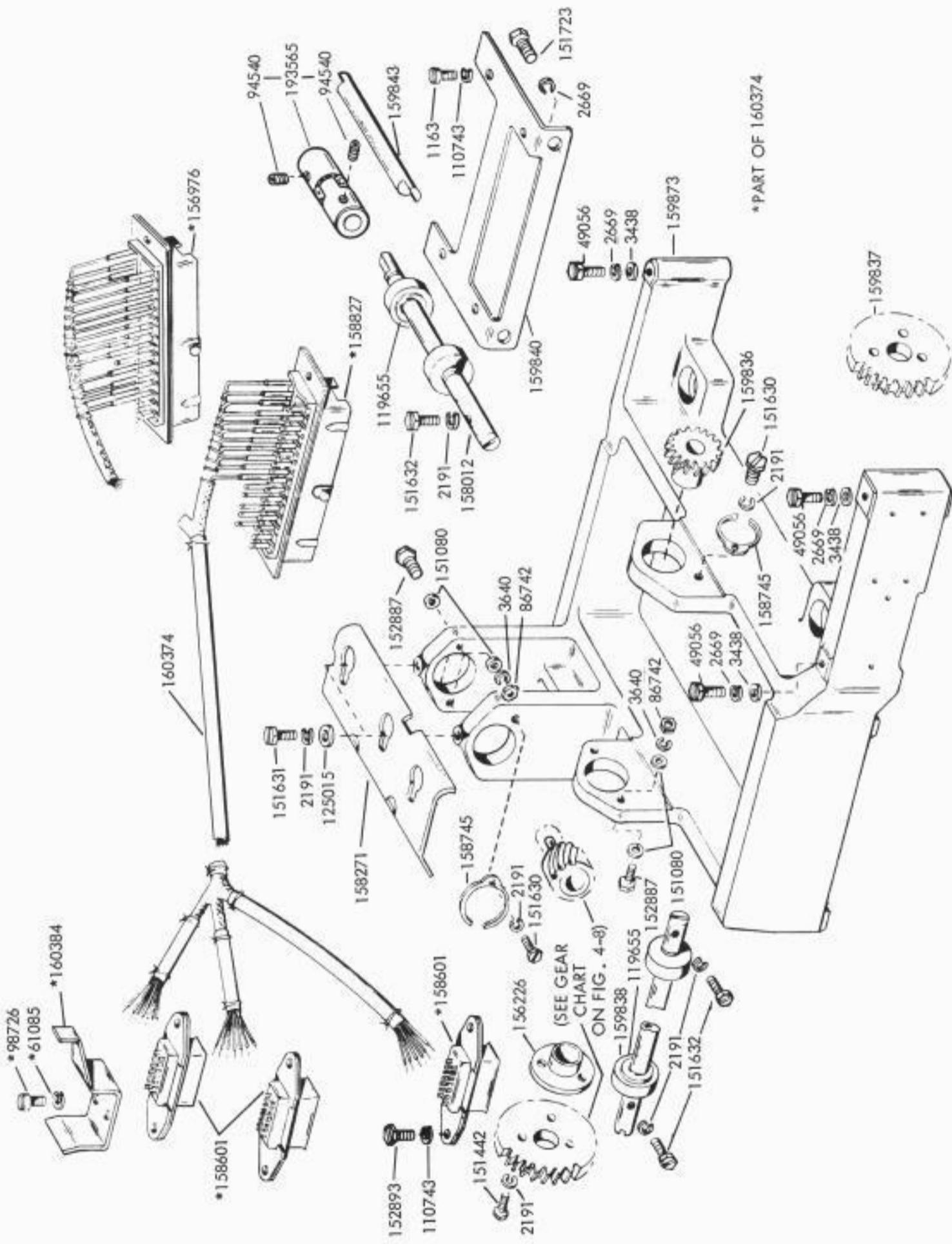
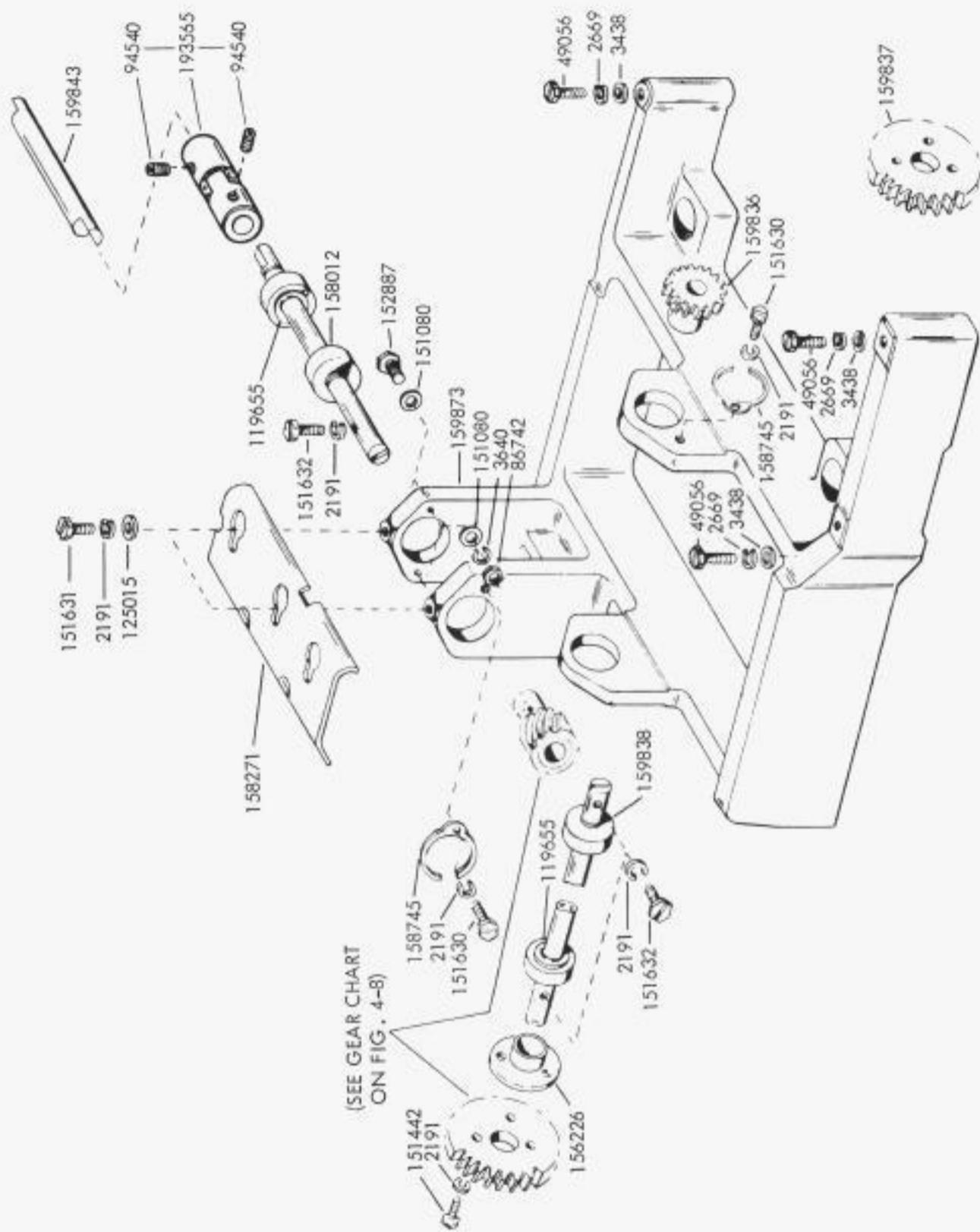


FIGURE 4-4. TRANSMITTER DISTRIBUTOR BASE



USED WITH LBXD TYPE TRANSMITTER DISTRIBUTOR

FIGURE 4-5. TRANSMITTER DISTRIBUTOR BASE

1169B

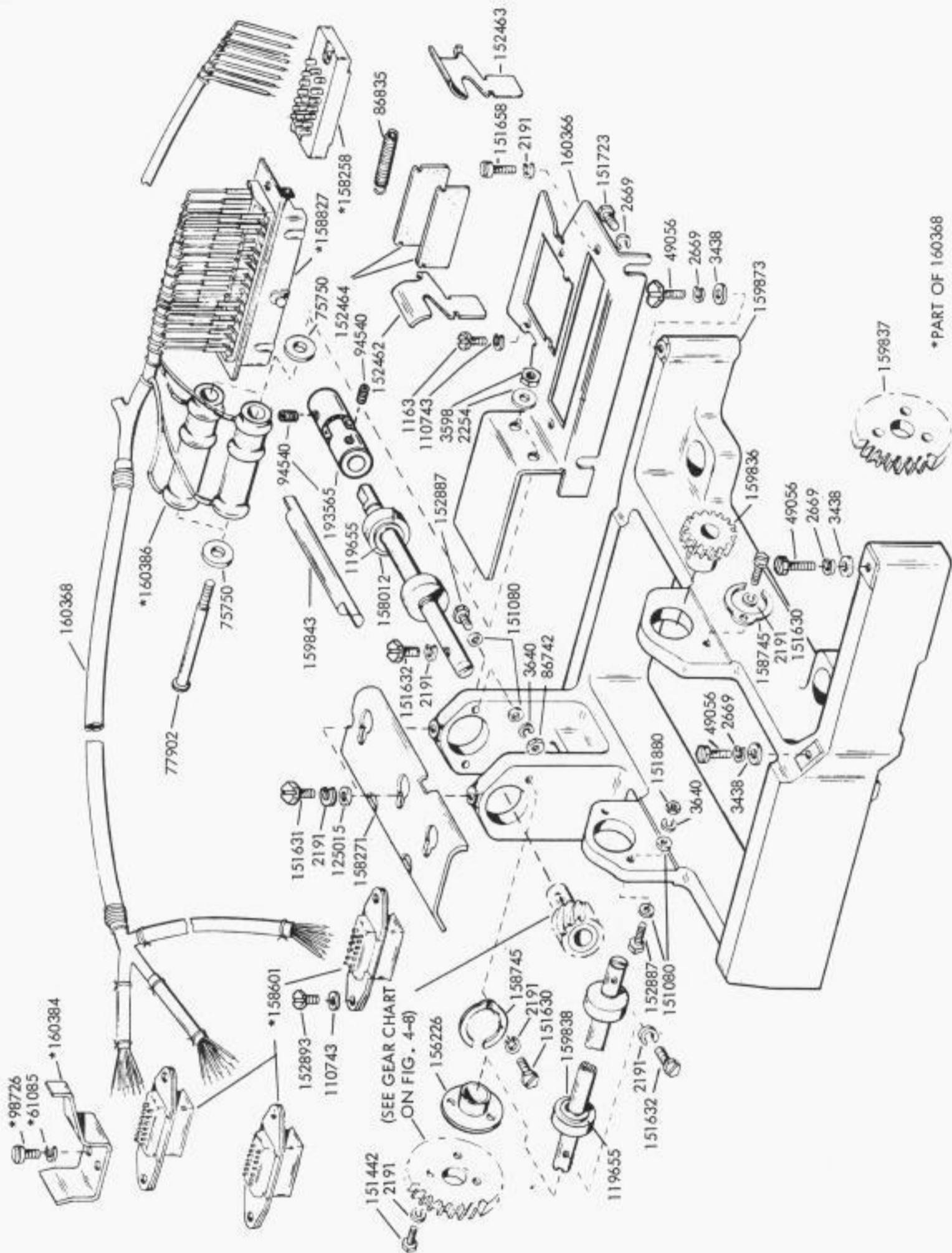


FIGURE 4-6. TRANSMITTER DISTRIBUTOR BASE

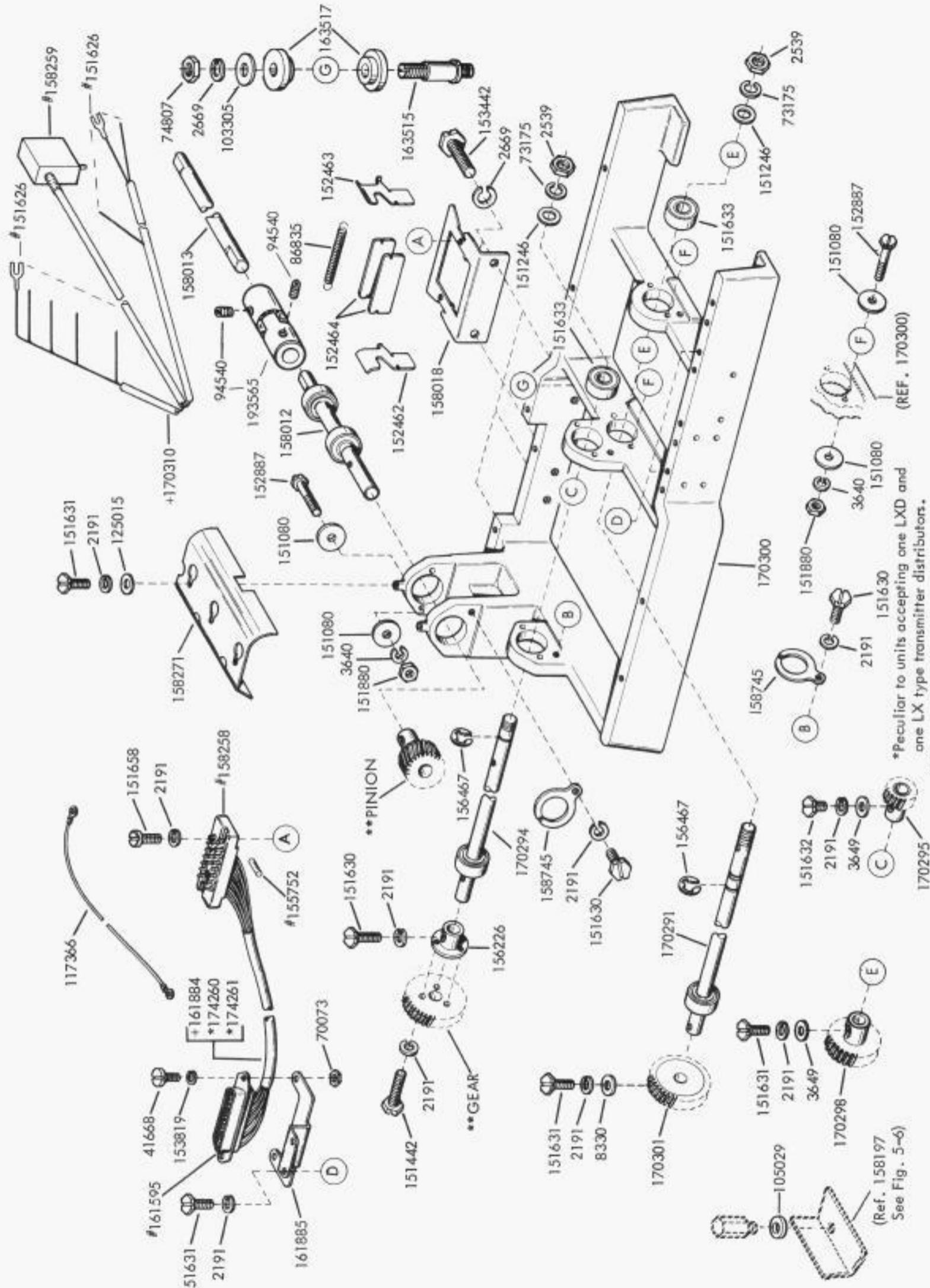


FIGURE 4-7. TRANSMITTER DISTRIBUTOR BASE

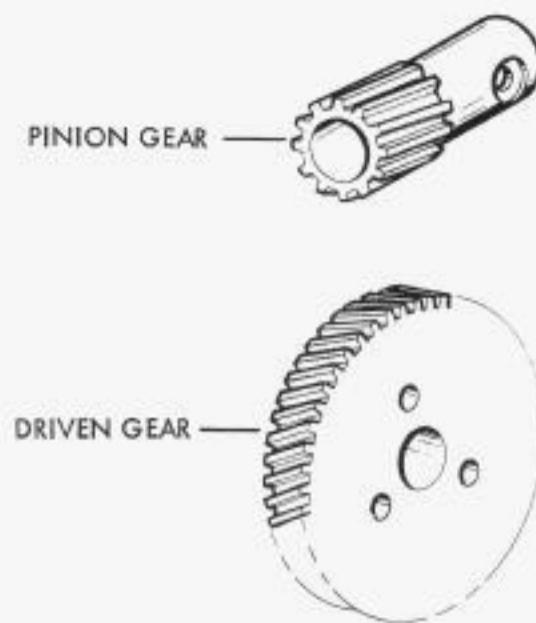
USED WITH DUAL IX OR LXD TYPE TRANSMITTER DISTRIBUTORS

one LX type transmitter distributor.

**See gear chart on Figure 4-8.

Part of cable assemblies

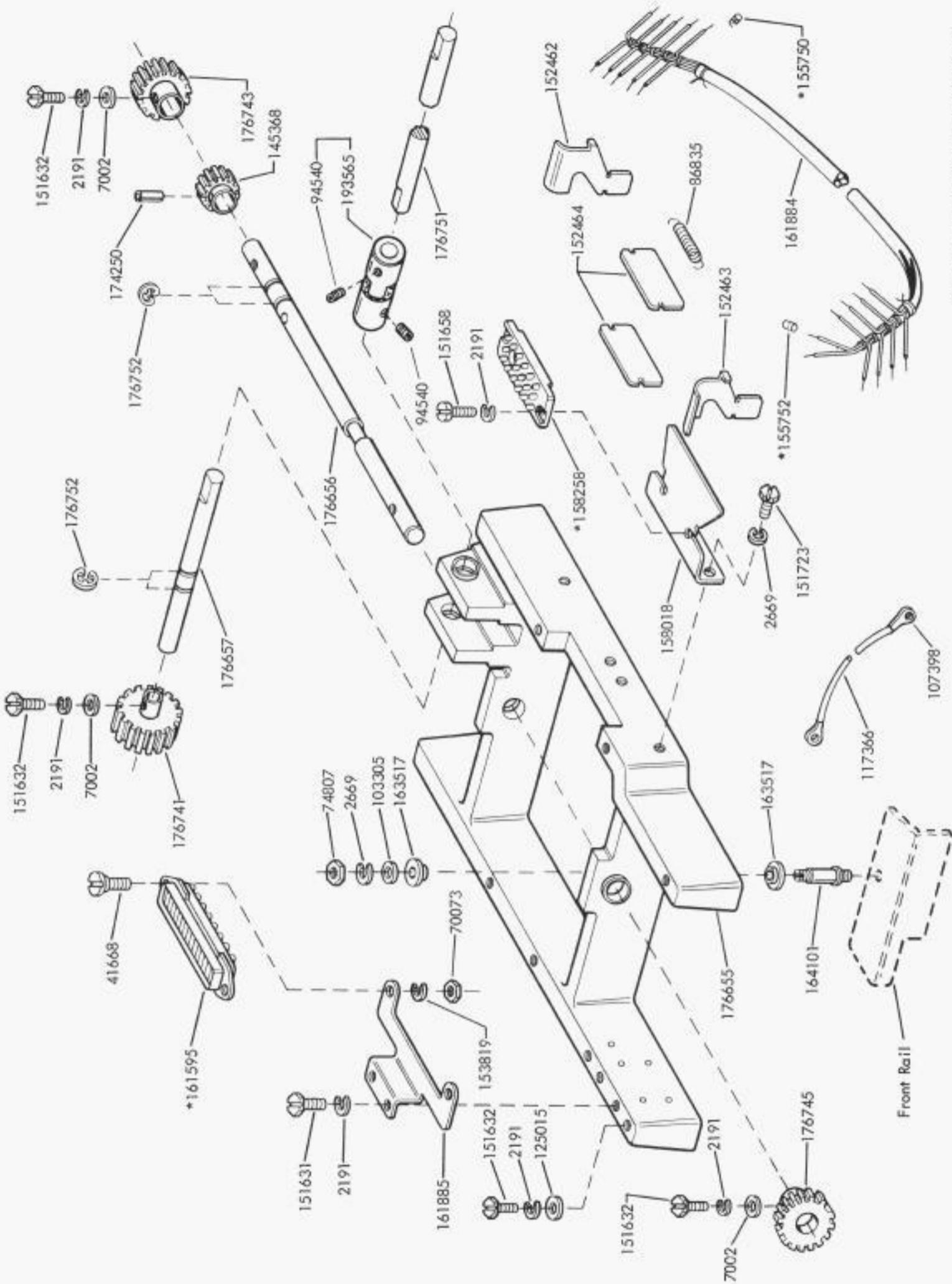
+Peculiar to units accepting type transmitter distributions.



SINGLE TRANSMITTER-DISTRIBUTOR BASE GEAR SETS					
GEAR SET	DRIVEN GEAR	PINION	WPM	UNIT CODE	BAUD
159882	155997 (60T)	155996 (13T)	65	7.00	45.5
173776	173819 (60T)	173818 (13T)	65	7.00	45.5
161357	161332 (42T)	161333 (10T)	71	7.00	50
163499	163498 (63T)	163497 (15T)	71	7.00	50
198056	198058 (70T)	198057 (19T)	81	7.00	56.9
159883	159999 (34T)	155998 (12T)	106	7.00	74.2
163454	163453 (56T)	163452 (20T)	107	7.00	75
158029	158006 (44T)	158005 (9T)	60	7.42	45.5
161356	161330 (49T)	161331 (11T)	67	7.42	50
158028	158004 (47T)	158003 (12T)	75	7.42	56.8
158027	158001 (33T)	158002 (11T)	100	7.42-11.0	74.2-110
178775	178777 (56T)	178776 (17T)	61	7.50	45.5
178772	178774 (60T)	178773 (20T)	66	7.50	50
178769	178771 (46T)	178770 (23T)	100	7.50	75

DUAL TRANSMITTER-DISTRIBUTOR BASE GEAR SETS					
GEAR SET	DRIVEN GEAR	PINION	WPM	UNIT CODE	BAUD
	199091 (56T)	199090 (20T)	107	7.00	75
	170190 (51T)	170189 (15T)	88	8.50	75
195146	195145 (49T)	195144 (11T)	67	7.42	50
	170297 (33T)	170293 (11T)	100	7.42-11.0	74.2-110

FIGURE 4-8. GEAR SETS



**FIGURE 4-9. TRANSMITTER DISTRIBUTOR BASE WITH ANSWER BACK FEATURE
(INCLUDES FIGURES 4-10 THROUGH 4-13)**

*PART OF 161884 CABLE ASSEMBLY
USED WITH LXD TYPE TRANSMITTER DISTRIBUTOR

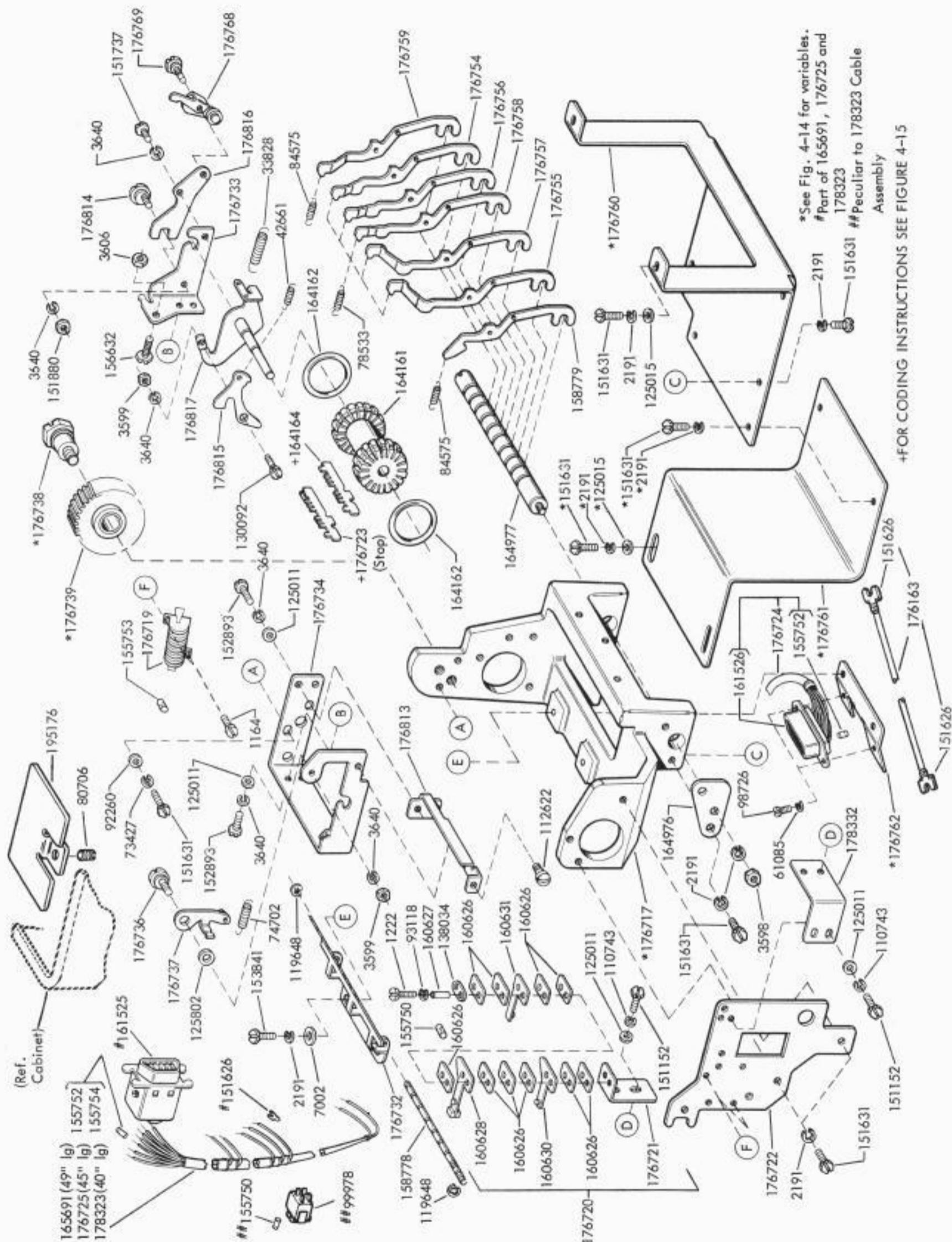
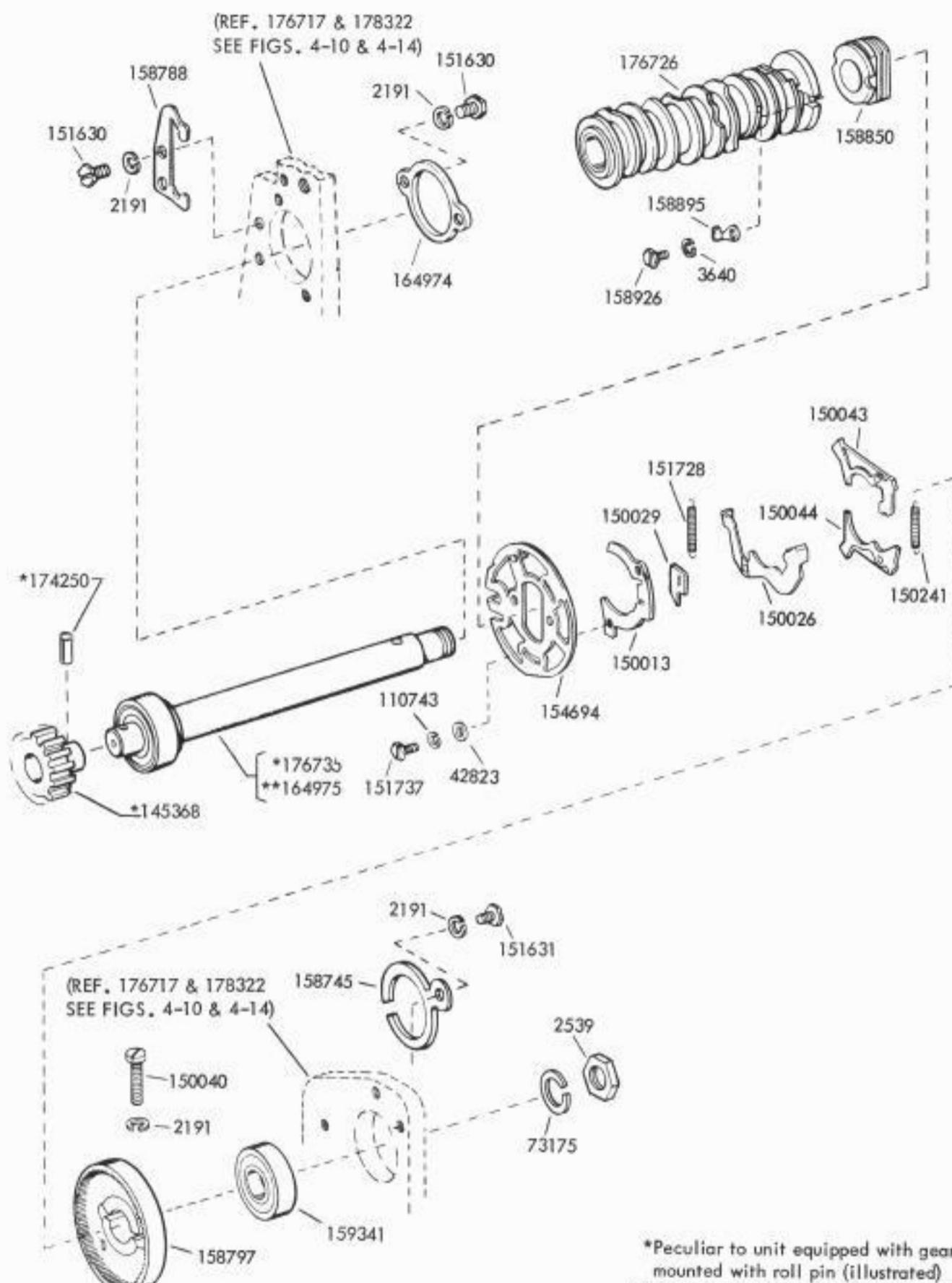


FIGURE 4-10. 178316 MODIFICATION KIT TO PROVIDE ANSWER BACK FEATURE FOR THE TRANSMITTER DISTRIBUTOR BASE (INCLUDES FIGURES 4-11 THROUGH 4-14)



*Peculiar to unit equipped with gear mounted with roll pin (illustrated)
**Peculiar to 178316 Modification Kit or unit equipped with gear mounted to hub (See Fig. 4-14).

FIGURE 4-11. 178316 MODIFICATION KIT TO PROVIDE ANSWER BACK FEATURE FOR THE TRANSMITTER DISTRIBUTOR BASE (INCLUDES FIGURES 4-10 THROUGH 4-14)

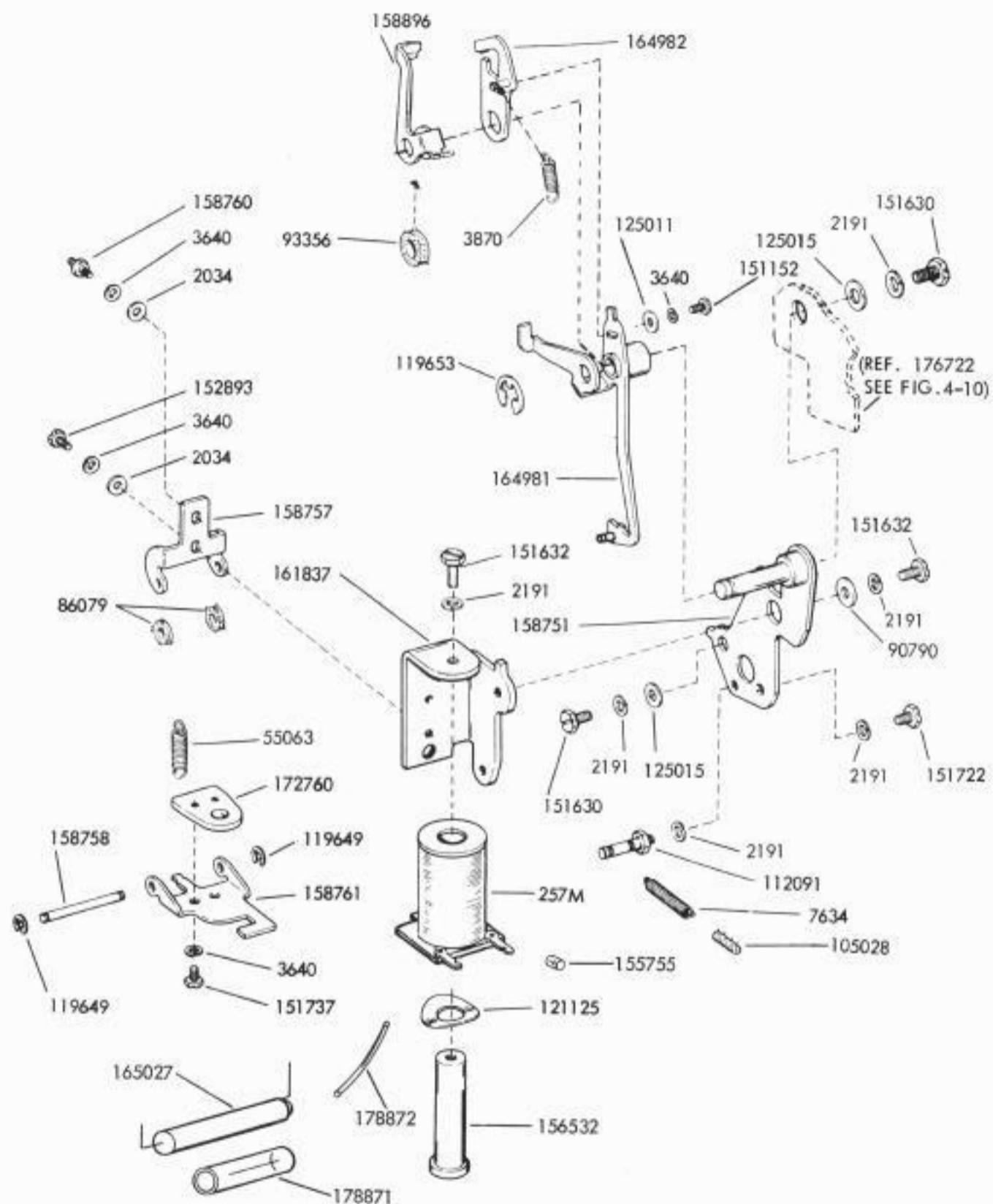


FIGURE 4-12. 178316 MODIFICATION KIT TO PROVIDE ANSWER BACK FEATURE FOR THE TRANSMITTER DISTRIBUTOR BASE (INCLUDES FIGURES 4-10 THROUGH 4-14)

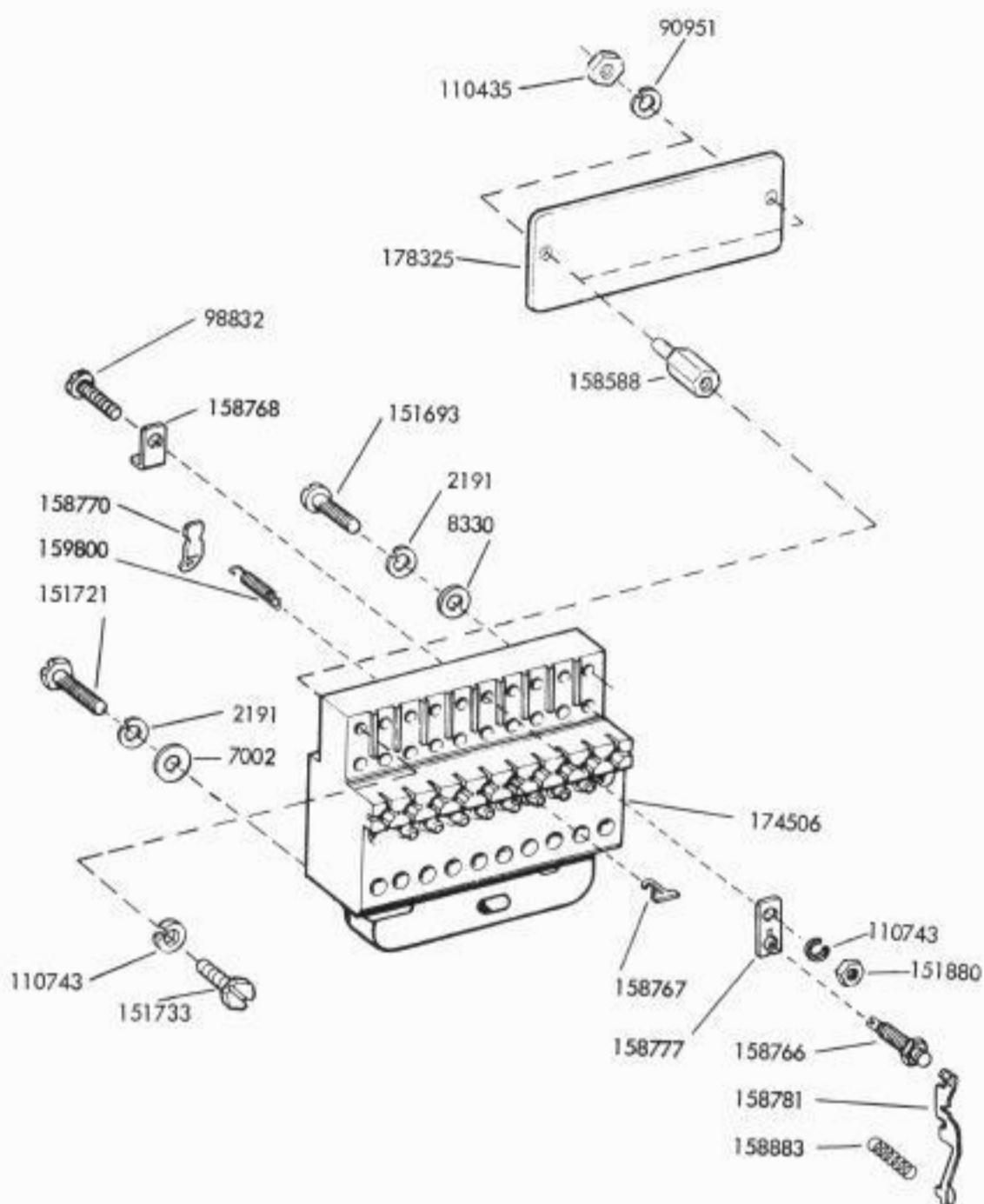


FIGURE 4-13. 178316 MODIFICATION KIT TO PROVIDE ANSWER BACK FEATURE FOR THE TRANSMITTER DISTRIBUTOR BASE (INCLUDES FIGURES 4-10 THROUGH 4-14)

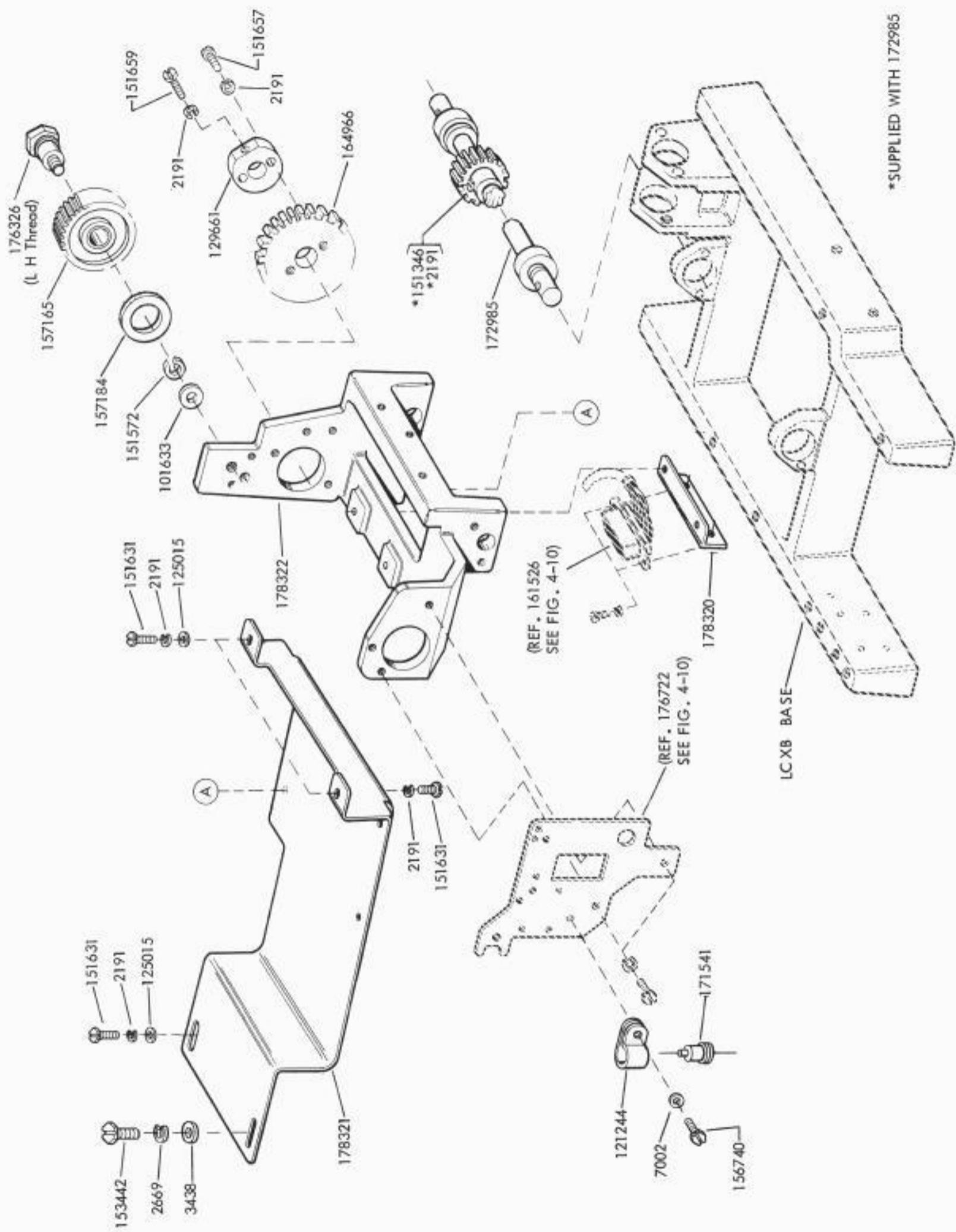


FIGURE 4-14. 178316 MODIFICATION KIT TO PROVIDE ANSWER BACK FEATURE FOR THE TRANSMITTER DISTRIBUTOR BASE (INCLUDES FIGURES 4-10 THROUGH 4-13)

CHARACTER	CODE				
	1	2	3	4	5
A			X	X	X
B		X	X		
C	X				X
D		X	X	X	
E		X	X	X	X
F	X				X
G	X	X			
H	X	X	X		
I	X		X	X	
J			X	X	
K					X
L	X	X	X		
M	X	X			
N	X	X			X
O	X	X	X		
P	X			X	
Q				X	
R	X	X	X		
S		X		X	X
T	X	X	X	X	
U				X	X
V	X				
W			X	X	
X		X			
Y		X	X		
Z	X	X	X		
CARRIAGE RETURN	X	X	X		X
LINE FEED	X		X	X	X
LETTERS SHIFT					
FIGURES SHIFT			X		
SPACE	X	X		X	X
BLANK	X	X	X	X	X

"0" POSITION TINE

NOTE:

Remove the "0" position tine
on all code and stop blades.

Coding Instructions for the Stop and Code Blades used in
the Answer Back Feature on an LCXB Transmitter Distributor Base.
(See Figure 1-45 for Coding Instructions for the Keyboard Base Feature)

FIGURE 4-15. UNCODED STOP AND CODE BLADES

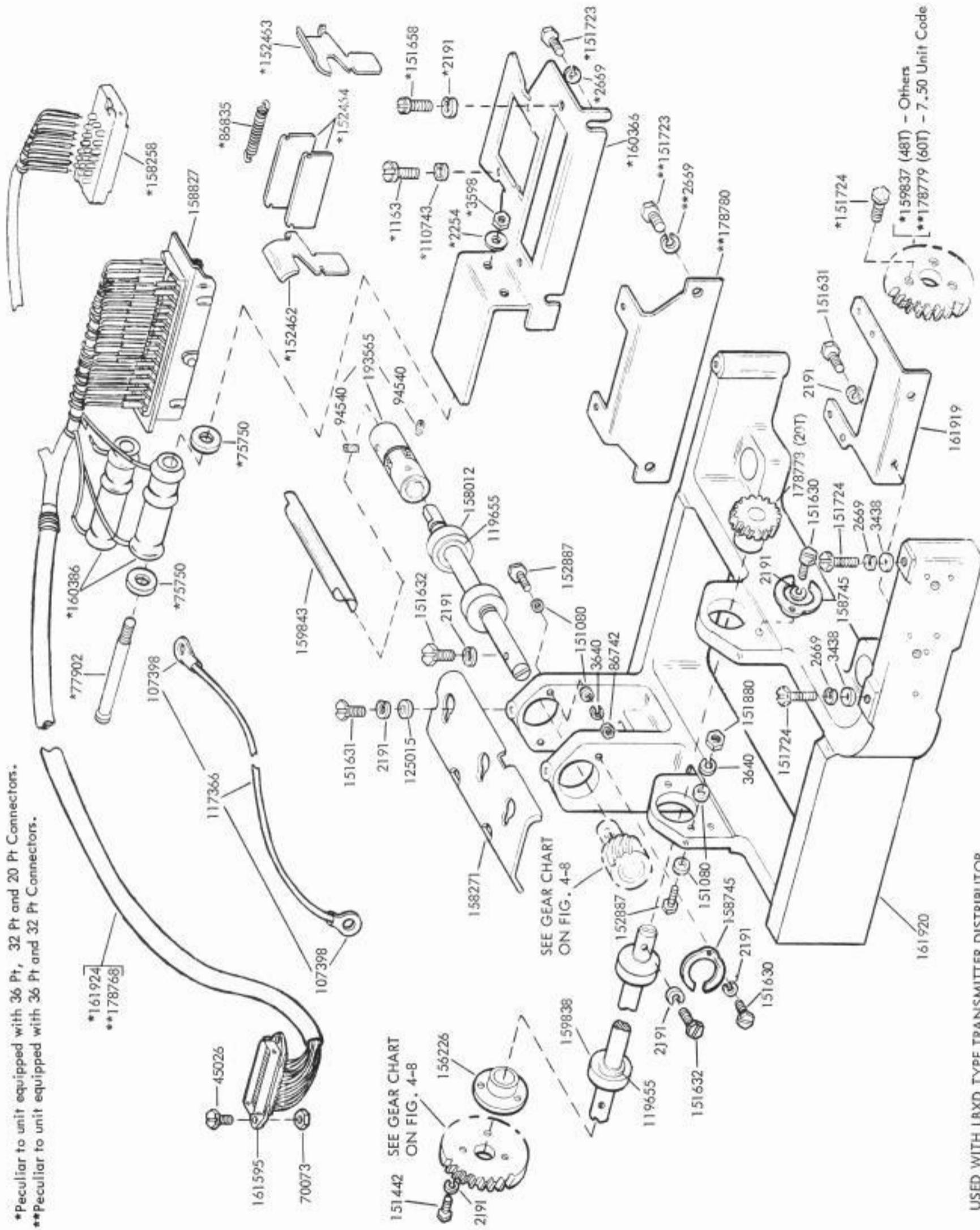


FIGURE 4-16. TRANSMITTER DISTRIBUTOR BASE

CHANGE 8

4-17

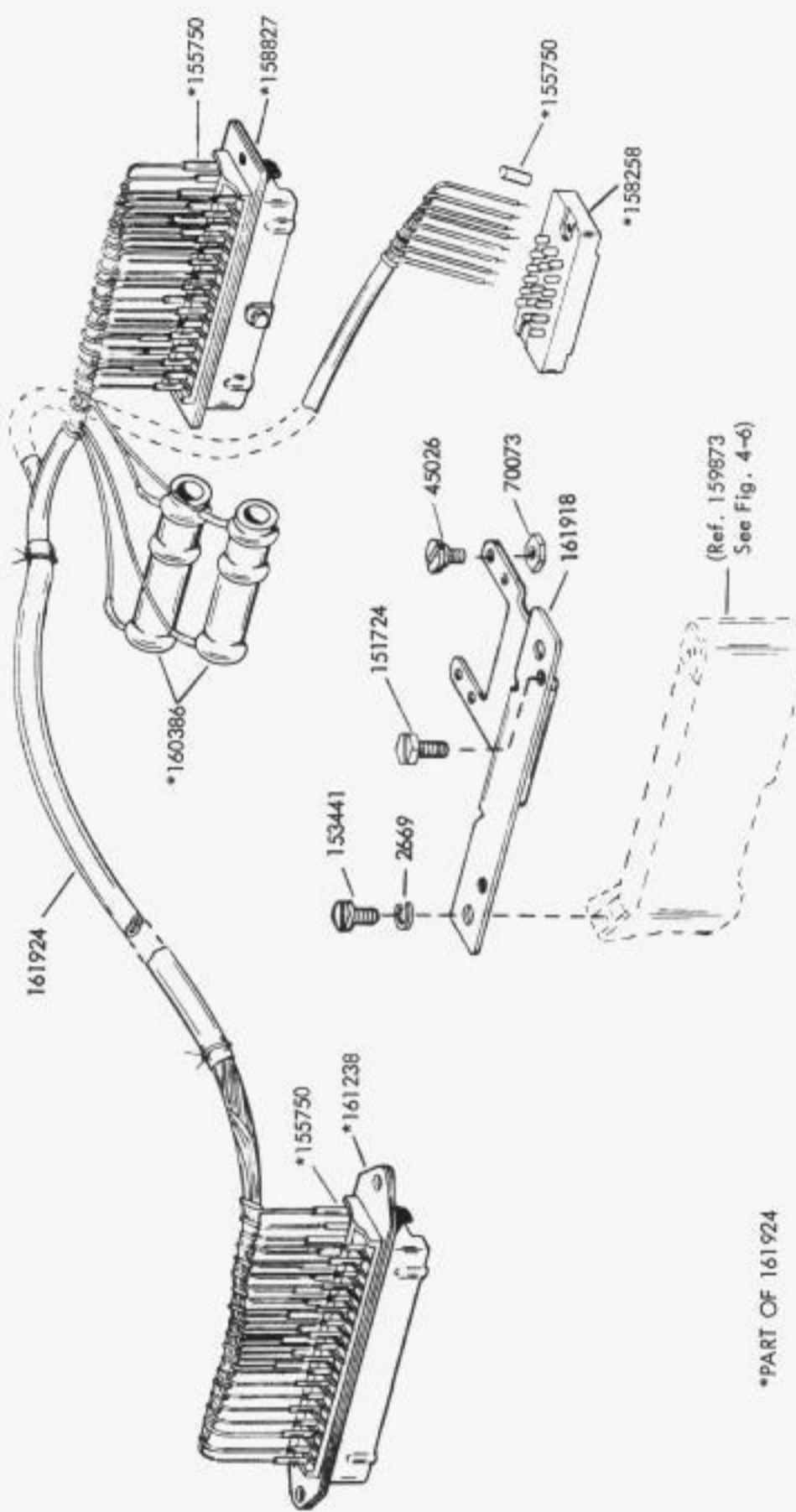
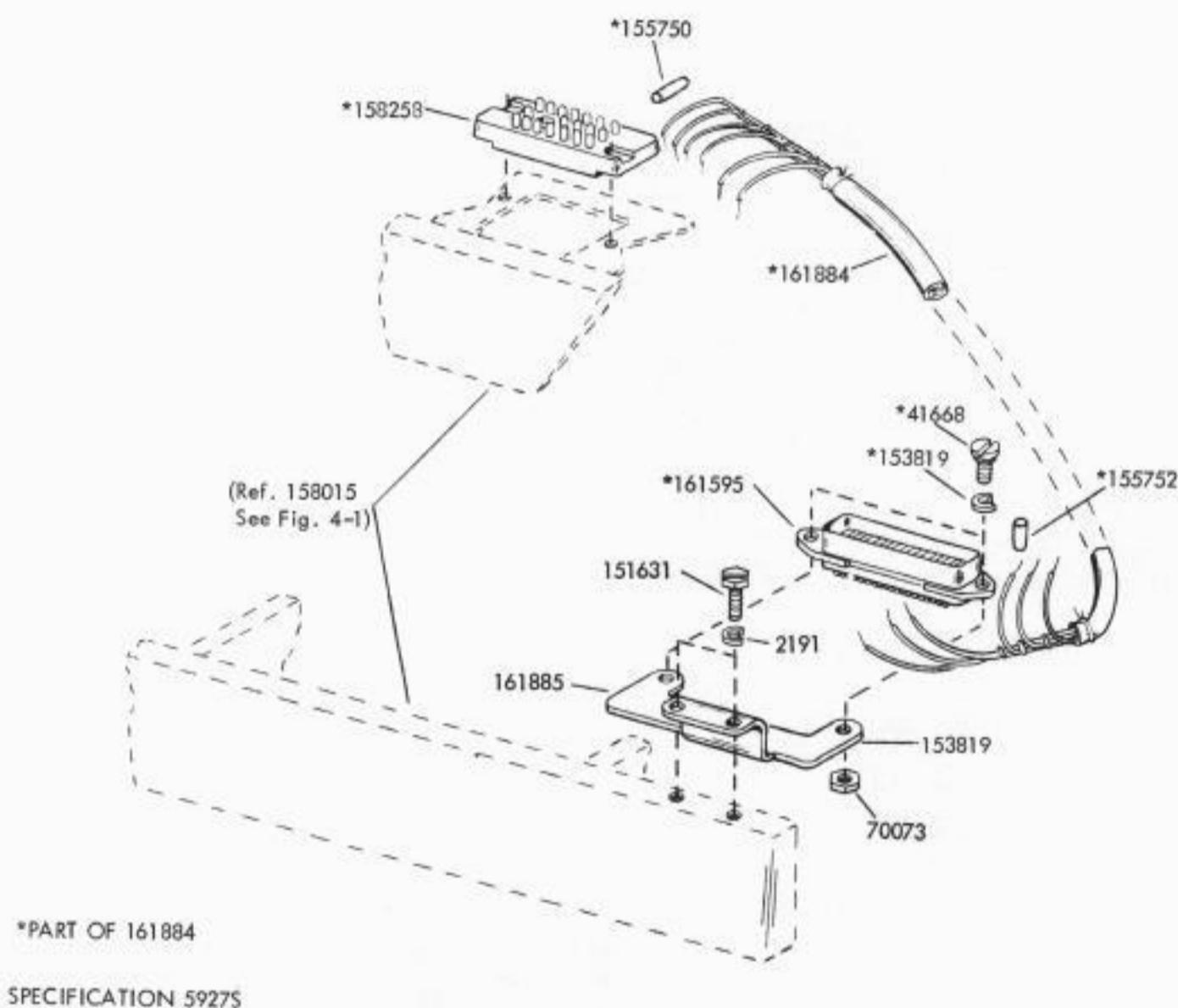
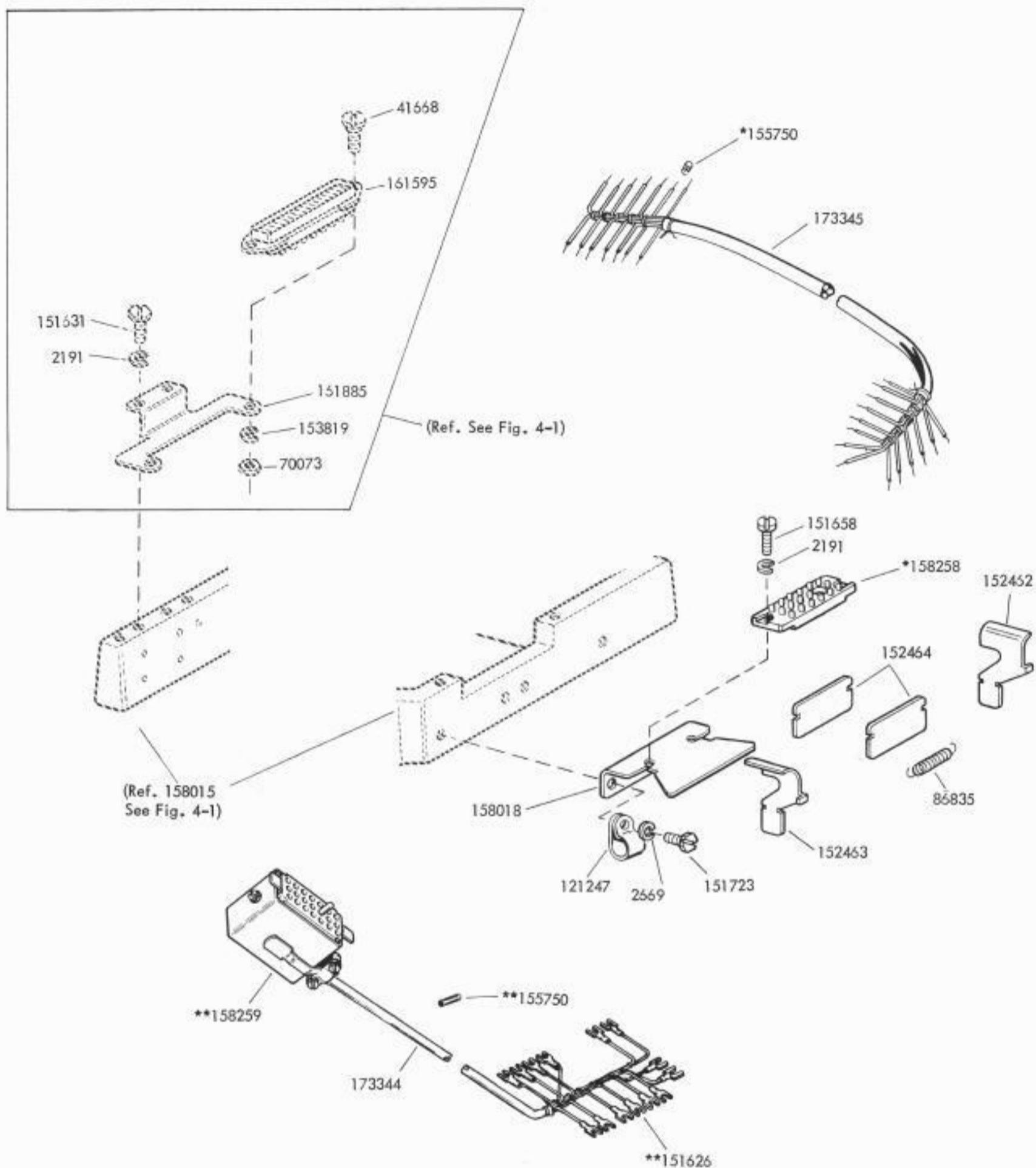


FIGURE 4-17. 161921 MODIFICATION KIT TO CONVERT AN LCXB7 BASE
TO ACCEPT AN LBXD7 TRANSMITTER DISTRIBUTOR



**FIGURE 4-18. 161833 MODIFICATION KIT TO CONVERT AN LCXB1 TO
AN LCXB8 TRANSMITTER DISTRIBUTOR BASE**



**Part of 173344 Cable Assembly
*Part of 173345 Cable Assembly

Specification 50174S

FIGURE 4-19. 173343 MODIFICATION KIT FOR MULTIPLE WIRE OUTPUT FACILITIES ON LCXB8 BASE

NUMERICAL INDEX - SECTION 4

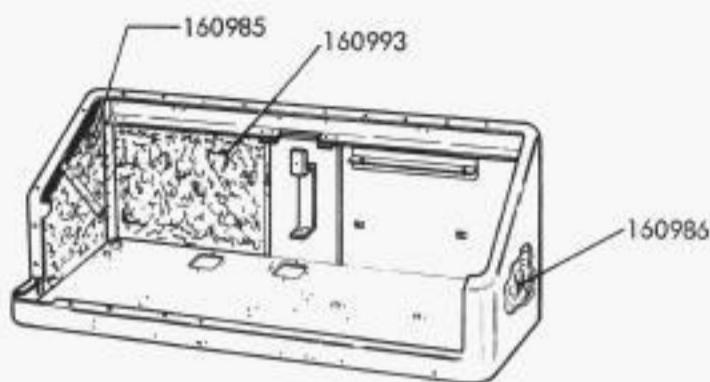
Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
257M	Coil, Magnet 4-13	110435	Nut (4-40 Hex) 4-14	152462	Latch, Right 4-2,4-7,4-8,4-10,4-17, 4-20
1163	Screw (4-40 x 3/16 Fil) 4-3,4-4, 4-5,4-7,4-17	110743	Washer, Lock 4-3 to 4-5,4-7,4-11, 4-12,4-14,4-17	152463	Latch, Left 4-2,4-7,4-8,4-10,4-17, 4-20
1164	Screw (2-56 x 3/16 Fil) 4-11	112091	Post (6-40) 4-13	152464	Insulator 4-2,4-7,4-8,4-10,4-17, 4-20
1222	Screw (2-56 x 1/2 Fil) 4-11	112622	Screw, Shoulder (4-40) 4-11	152887	Screw (4-40 x 1/2 Hex) 4-2 to 4-8, 4-17
2034	Washer, Flat 4-3,4-4,4-13	117366	Jumper (8-1/2" Green) 4-2,4-8, 4-10,4-17	152893	Screw (4-40 x 1/4 Hex) 4-5,4-7, 4-11,4-13
2191	Washer, Lock 4-2 to 4-8,4-10 to 4-15,4-17,4-19,4-20	117535	Washer, Flat 4-2	153441	Screw (10-32 x 7/16 Hex) 4-18
2254	Washer, Flat 4-7,4-17	119648	Ring, Retaining (.073 ID) 4-11	153442	Screw (10-32 x 1/2 Hex) 4-8,4-15
2449	Washer, Lock 4-3,4-4	119649	Ring, Retaining (.094 ID) 4-13	153819	Washer, Lock 4-2,4-8,4-10,4-19
2539	Nut (3/8-32 Hex) 4-8,4-12	119653	Ring, Retaining (.207 ID) 4-13	153841	Screw (6-40 x 9/16 Hex) 4-11
2669	Washer, Lock 4-2 to 4-8,4-10, 4-15,4-17,4-18,4-20	119655	Ring, Retaining (.300 ID) 4-2 to 4-7,4-17	154694	Disc 4-12
3438	Washer, Flat 4-3 to 4-7,4-15,4-17	121125	Washer, Spring 4-13	155750	Sleeve, Insulating (3/32 ID) 4-2, 4-10,4-11,4-18,4-19,4-20
3598	Nut (6-40 Hex) 4-7,4-11,4-17	121244	Clamp, Cable (1/4" ID) 4-2,4-15	155752	Sleeve, Insulating (5/64 ID) 4-8, 4-10,4-11,4-19
3599	Nut (4-40 Hex) 4-11	121245	Clamp, Cable (5/16" ID) 4-2	15596	Sleeve, Insulating (1/8 ID) 4-11
3606	Nut (6-40 Hex) 4-11	125011	Washer, Flat 4-11,4-13	15597	Sleeve, Insulating (1/16 ID) 4-11
3640	Washer, Lock 4-2 to 4-8,4-11 to 4-13,4-17	125015	Washer, Flat 4-2 to 4-8,4-10, 4-11,4-13,4-15,4-17	15598	Sleeve, Insulating (11/64 ID) 4-13
3649	Washer, Flat 4-8	125802	Washer, Flat 4-11	15599	Pinion (13 T) 4-9
3870	Spring 4-13	129661	Hub 4-15	155997	Gear (60 T) 4-9
7002	Washer, Flat 4-10,4-11,4-14,4-15	130092	Screw, Shoulder (4-40) 4-11	155998	Pinion (12 T) 4-9
7634	Spring 4-13	138034	Plate 4-11	155999	Gear (34 T) 4-9
8330	Washer, Flat 4-14	145368	Gear, Helical (27 T) 4-10,4-12	156226	Hub, Gear 4-2 to 4-8,4-17
33828	Spring 4-11	150013	Disk, Adjusting 4-12	156467	Ring, Retaining (5/16) 4-8
41668	Screw, Shoulder (3-48) 4-2,4-8, 4-10,4-19	150026	Lever, Clutch Shoe 4-12	156532	Core Assembly 4-13
42661	Spring 4-11	150029	Wick, Felt 4-12	156632	Screw (6-40 x 13/32 Hex) 4-11
42823	Washer, Flat 4-12	150040	Screw (6-40 x 5/8 Fil) 4-12	156740	Screw (6-40 x 7/32 Hex) 4-15
45026	Screw, Shoulder (3-48) 4-17,4-18	150043	Shoe, Secondary Clutch 4-12	156976	Connector, Plug (32 Pt) 4-5
49056	Screw (10-32 x 7/8 Hex) 4-5,4-6, 4-7	150044	Shoe, Primary Clutch 4-12	157165	Gear (35 T) 4-15
55063	Spring 4-13	150952	Eccentric 4-3,4-4	157184	Washer, Felt 4-15
61085	Washer, Lock 4-5,4-7,4-11	151080	Washer, Flat 4-2 to 4-8,4-17	158001	Gear, Helical (33 T) 4-9
70073	Nut (3-48 Hex) 4-2,4-8,4-10, 4-17 to 4-19	151152	Screw (4-40 x 3/16 Hex) 4-11, 4-13	158002	Gear, Helical (11 T) 4-9
71858	Washer, Flat 4-3,4-4	151246	Washer, Flat 4-8	158003	Gear, Helical (12 T) 4-9
73175	Washer, Lock 4-8,4-12	151346	Screw (6-40 x 3/8 Fil) 4-15	158004	Gear, Helical (47 T) 4-9
73427	Washer, Flat 4-11	151442	Screw (6-40 x 1/2 Hex) 4-2 to 4-8,4-17	158005	Pinion (9 T) 4-9
74702	Spring 4-11	151572	Washer, Lock 4-15	158006	Gear, Helical (44 T) 4-9
74807	Nut (10-32 Hex) 4-2,4-8,4-10	151626	Terminal 4-11,4-20	158012	Shaft 4-2 to 4-8,4-17
75750	Washer, Insulating 4-7,4-17	151630	Screw (6-40 x 1/4 Hex) 4-2 to 4-8,4-12,4-13,4-17	158013	Coupling, Shaft 4-2,4-8
76279	Screw (1/4-32 x 5/8 Hex) 4-3,4-4	151631	Screw (6-40 x 5/16 Hex) 4-2 to 4-8,4-10,4-11,4-15,4-17,4-19	158015	Base 4-2
77902	Screw (6-40 x 2-3/8 Rd) 4-7,4-17	151632	Screw (6-40 x 3/8 Hex) 4-2 to 4-8,4-10,4-13,4-17	158017	Shaft 4-2
78533	Spring 4-11	151633	Bearing, Ball 4-8	158018	Bracket 4-2,4-8,4-10,4-20
80706	Screw, Set (6-40) 4-11	151657	Screw (6-40 x 1/4 Fil) 4-2,4-15	158027	Gear Set (100 WPM) 4-9
84575	Spring 4-11	151658	Screw (6-40 x 5/16 Fil) 4-2,4-7, 4-8,4-10,4-17,4-20	158028	Gear Set (75 WPM) 4-9
86079	Washer, Felt 4-13	151659	Screw (6-40 x 1/2 Fil) 4-15	158029	Gear Set (60 WPM) 4-9
86742	Nut (4-40 Hex) 4-3 to 4-7,4-17	151687	Screw (4-40 x 7/16 Fil) 4-3	158258	Connector, Plug (20 Pt) 4-2,4-7,4-8, 4-10,4-17 to 4-20
86835	Spring 4-2,4-7,4-8,4-10,4-17, 4-20	151688	Screw (4-40 x 5/8 Fil) 4-4	158259	Connector, Receptacle (20 Pt) 4-8, 4-20
86830	Screw (10-32 x 1-1/4 Hex) 4-3, 4-4	151693	Screw (6-40 x 9/16 Fil) 4-14	158271	Guard, Gear 4-2 to 4-8,4-17
90790	Washer, Flat 4-13	151721	Screw (6-40 x 3/4 Hex) 4-14	158588	Post (4-40) 4-14
90951	Washer, Lock 4-14	151722	Screw (6-40 x 3/16 Hex) 4-13	158601	Connector, Plug (14 Pt) 4-5,4-7
92260	Washer, Lock 4-11	151723	Screw (10-32 x 3/8 Hex) 4-2 to 4-5,4-7,4-10,4-17,4-20	158745	Plate, Clamp 4-2,4-8,4-12,4-17
93118	Washer, Lock 4-11	151724	Screw (10-32 x 5/8 Hex) 4-17, 4-18	158751	Plate W/Shaft, Clutch Trip 4-13
93356	Washer, Felt 4-13	151728	Spring 4-12	158757	Hinge, Mounting 4-13
94540	Screw, Set (10-24) 4-2 to 4-8, 4-10	151733	Screw (4-40 x 9/16 Fil) 4-14	158758	Shaft 4-13
98726	Screw (3-48 x 1/4 Fil) 4-5,4-7, 4-11	151737	Screw (4-40 x 11/64 Hex) 4-11, 4-12,4-13	158760	Post (4-40) 4-13
98832	Screw (4-40 x 11/16 Fil) 4-14	151738	Nut (4-40 Hex) 4-2,4-7,4-8, 4-11,4-14,4-17	158761	Bail 4-13
99978	Connector, Plug (4 Pt) 4-11	151770	Spring, Contact (6-40) 4-14	158766	Screw, Guide 4-2 to 4-8,4-17
101633	Washer, Flat 4-15	151777	Guide, Lever 4-14	158767	Terminal 4-14
103305	Washer, Flat 4-2,4-8,4-10	151778	Terminal 4-14	158768	Terminal, Spring Holder 4-14
105028	Wick, Felt 4-13	151780	Holder, Screw (4-40) 4-14	158777	Holder, Spring 4-11
107396	Terminal 4-10,4-17	151781	Post, Spring 4-11	158778	Lever, Cam Follower 4-11

NUMERICAL INDEX - SECTION 4 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
158781	Rocker, Contact 4-14	161920	Base 4-17	176725	Cable Assembly 4-11
158785	Block, Distributor 4-14	161924	Cable Assembly 4-17,4-18	176726	Sleeve, Cam 4-12
158788	Clamp 4-12	163003	Gear (20 T) 4-2	176732	Guide 4-11
158797	Drum, Clutch 4-12	163452	Pinion (20 T) 4-9	176733	Bracket 4-11
158827	Connector, Receptacle (32 Pt) 4-5, 4-7,4-17,4-18	163453	Gear (56 T) 4-9	176734	Bracket 4-11
158850	Bearing 4-12	163454	Gear Set (106 WPM) 4-9	176735	Shaft W/Bearing 4-12
158883	Spring 4-14	163497	Pinion (15 T) 4-9	176736	Screw, Shoulder (4-40) 4-11
158895	Clip 4-12	163498	Gear (63 T) 4-9	176737	Lever, Detent 4-11
158896	Lever, Latch 4-13	163499	Gear Set 4-9	176738	Screw, Shoulder (10-32) 4-11
158926	Screw (4-40 x 7/32 Hex) 4-12	163515	Stud, Shoulder 4-8	176739	Gear (45 T) 4-11
159233	Stud (6-40) 4-3,4-4	163517	Bushing, Rubber 4-2,4-8,4-10	176741	Gear (33 T) 4-10
159341	Bearing, Ball 4-12	164101	Stud, Shoulder 4-2,4-10	176743	Gear (33 T) 4-10
159800	Spring 4-14	164161	Drum, Message 4-11	176745	Gear (40 T) 4-10
159836	Gear (24 T) 4-3 to 4-7	164162	Ring, "O" 4-11	176751	Shaft 4-10
159837	Gear (48 T) 4-5 to 4-7,4-17	164164	Blade, Code 4-11	176752	Ring, Retaining 4-10
159838	Shaft 4-3 to 4-7,4-17	164966	Gear (42 T) 4-15	176754	Lever, Cam Follower 4-11
159839	Bracket, Plug Mounting 4-4	164974	Plate 4-12	176755	Lever, Cam Follower 4-11
159840	Bracket, Plug Mounting 4-3,4-5	164975	Shaft W/Bearing 4-12	176756	Lever, Cam Follower 4-11
159843	Shaft, Coupling 4-5 to 4-7,4-17	164976	Plate 4-11	176757	Lever, Cam Follower 4-11
159844	Base 4-3	164977	Shaft, Lever 4-11	176758	Lever, Cam Follower 4-11
159845	Base 4-4	164981	Lever, Trip 4-13	176759	Lever, Code Blade (Stop Cam) 4-11
159846	Shaft, Coupler 4-3,4-4	165027	Network, Spark Suppression 4-13	176760	Bracket, Mounting 4-11
159873	Base 4-5,4-6,4-7	165691	Cable Assembly 4-11	176761	Bracket 4-11
159882	Gear Set (65 WPM) 4-9	170189	Pinion (15 T) 4-9	176762	Bracket, Connector 4-11
159883	Gear Set (106 WPM) 4-9	170190	Gear (51 T) 4-9	176768	Lever, Drive 4-11
160366	Bracket 4-7,4-17	170291	Shaft W/Bearings, Idler 4-8	176769	Screw, Pilot (6-40) 4-11
160368	Cable Assembly 4-7	170293	Pinion (11 T) 4-9	176813	Guide 4-11
160374	Cable Assembly 4-4,4-5	170294	Shaft, W/Bearings 4-8	176814	Screw, Shoulder (4-40) 4-11
160384	Bracket 4-5,4-7	170295	Gear (25 T) 4-8	176815	Pawl, Stepping 4-11
160386	Resistor (1000 Ohm) 4-7,4-17,4-18	170297	Gear (33 T) 4-9	176816	Plate 4-11
160425	Stud, Adjusting (1/4-32) 4-3,4-4	170298	Gear (40 T) 4-8	176817	Plate W/Shaft, Drive 4-11
160626	Insulator 4-11	170300	Base 4-8	178316	Modification Kit 4-10 to 4-15
160627	Bushing, Insulating 4-11	170301	Gear (50 T) 4-8	178320	Bracket, Connector 4-15
160628	Spring, Contact 4-11	170310	Cable W/Connector 4-8	178321	Plate, Mounting 4-15
160630	Spring, Contact 4-11	171541	Diode (IN1693) 4-15	178322	Frame, Distributor 4-15
160631	Spring, Contact 4-11	172760	Armature 4-13	178323	Cable Assembly 4-11
160975	Nut (1/4-32 Hex) 4-3,4-4	172985	Shaft W/Bearings and Gear 4-15	178325	Cover, Insulator 4-14
161238	Connector, Receptacle (36 Pt) 4-18	173343	Modification Kit 4-20	178332	Bracket 4-11
161330	Gear, Helical (49 T) 4-9	173344	Cable Assembly 4-20	178768	Cable Assembly 4-17
161331	Gear, Helical (11 T) 4-9	173345	Cable Assembly 4-20	178769	Gear Set (100 WPM) 4-9
161332	Gear (42 T) 4-9	173776	Gear Set (65 WPM) 4-9	178770	Pinion (23 T) 4-9
161333	Pinion (10 T) 4-9	173818	Pinion (13 T) 4-9	178771	Gear (46 T) 4-9
161353	Gear (63 T) 4-9	173819	Gear (60 T) 4-9	178772	Gear Set (67 WPM) 4-9
161354	Pinion (15 T) 4-9	174250	Pin, Roll 4-10,4-12	178773	Pinion (20 T) 4-9
161356	Gear Set (67 WPM) 4-9	174260	Cable Assembly 4-8	178774	Gear (60 T) 4-9
161357	Gear Set 4-9	174261	Cable Assembly 4-8	178775	Gear Set (61 WPM) 4-9
161359	Gear Set 4-9	176163	Jumper (18") 4-11	178776	Pinion (17 T) 4-9
161525	Connector, Plug (14 Pt) 4-11	176326	Screw, Shoulder (10-32 LH) 4-15	178777	Gear (56 T) 4-9
161526	Connector, Receptacle (14 Pt) 4-11	176655	Base 4-10	178778	Pinion (20 T) 4-17
161595	Connector, Receptacle (36 Pt) 4-2, 4-8,4-10,4-17	176656	Shaft 4-10	178779	Gear (60 T) 4-17
161833	Modification Kit 4-19	176657	Shaft 4-10	178870	Bracket, Connector 4-17
161837	Bracket 4-13	176717	Frame, Distributor 4-11	178871	Sleeve, Insulating (7/16 x 1-1/8") 4-13
161884	Cable Assembly 4-2,4-8,4-10,4-19	176719	Resistor (1000 Ohm) 4-11	193565	Coupling, Flexible 4-2 to 4-8, 4-10,4-17
161885	Bracket, Connector 4-2,4-8,4-10, 4-19	176720	Contact Assembly 4-11	194356	Pinion (15 T) 4-2
161918	Bracket, Connector 4-18	176721	Bracket, Contact 4-11	195144	Pinion (11 T) 4-9
161919	Bracket, Connector 4-17	176722	Plate, Mounting 4-11	195145	Gear (49 T) 4-9
		176723	Blade, Stop 4-11	195176	Guard, Contact 4-11
		176724	Cable Assembly 4-11		

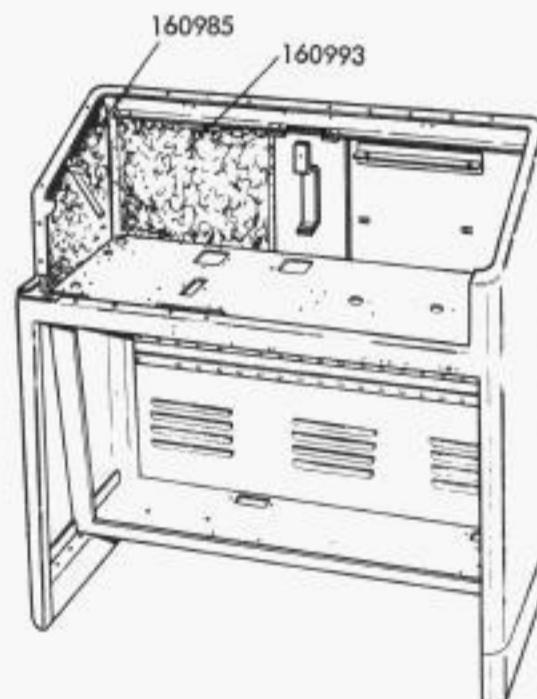
SECTION 5

AUTOMATIC SEND-RECEIVE CABINET (LAAC)



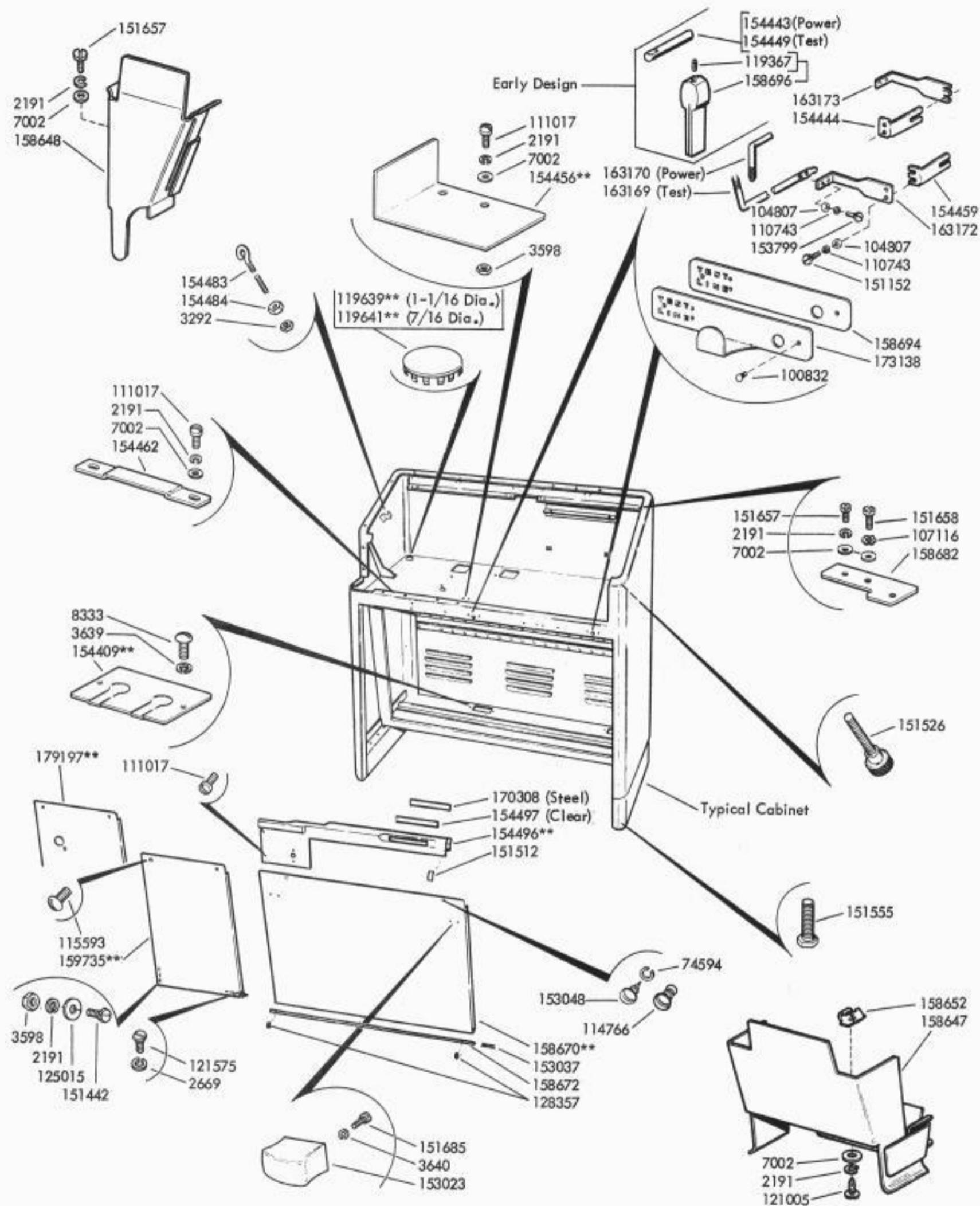
TYPICAL TABLE MODEL CABINET

CABINET TYPES	
General Purpose	Special Purpose
Accommodates Fixed Head Transmitters & Transmitter Distributors <ul style="list-style-type: none"> ● LX ● LXD ● LBXD 	Accommodates Pivoted Head Transmitter Distributors <ul style="list-style-type: none"> ● LAXD ● LCXD ● LFXD



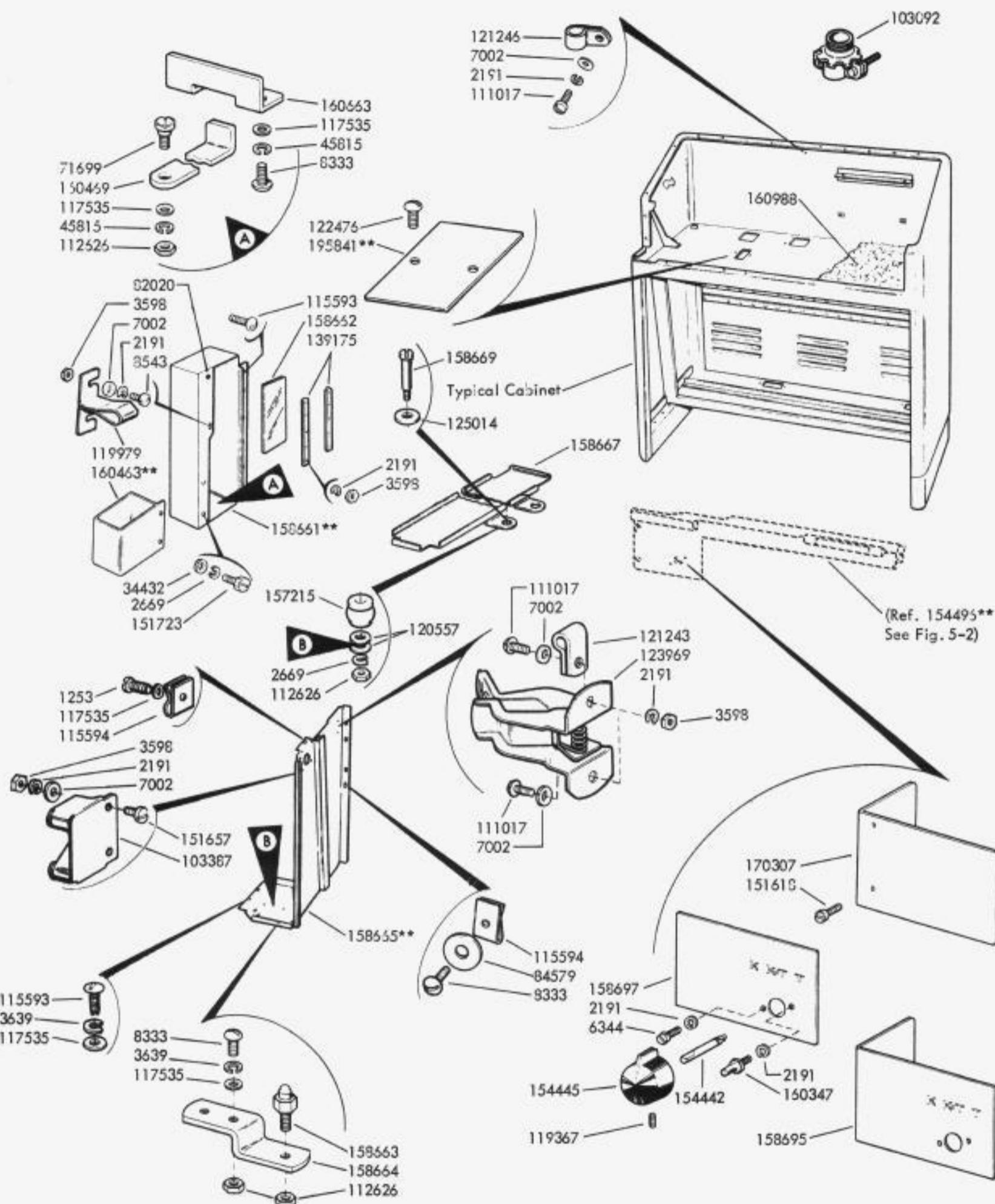
TYPICAL FLOOR MODEL CABINET

FIGURE 5-1. TYPICAL CABINETS



**Refer to page B for finish suffix

FIGURE 5-2. CABINET BASE COMMON PARTS



**Refer to page B for finish suffix

FIGURE 5-3. CABINET BASE COMMON PARTS.....Continued

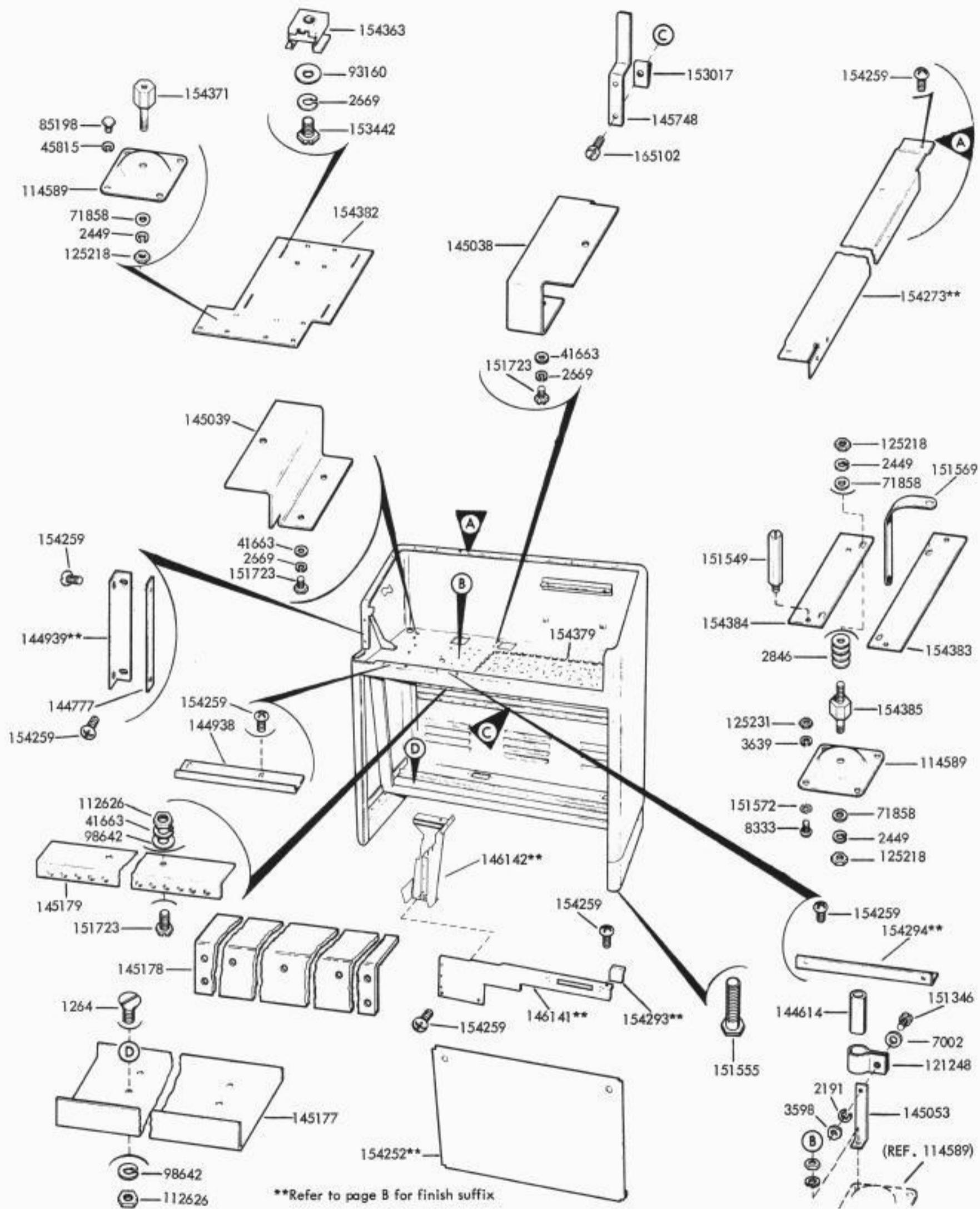
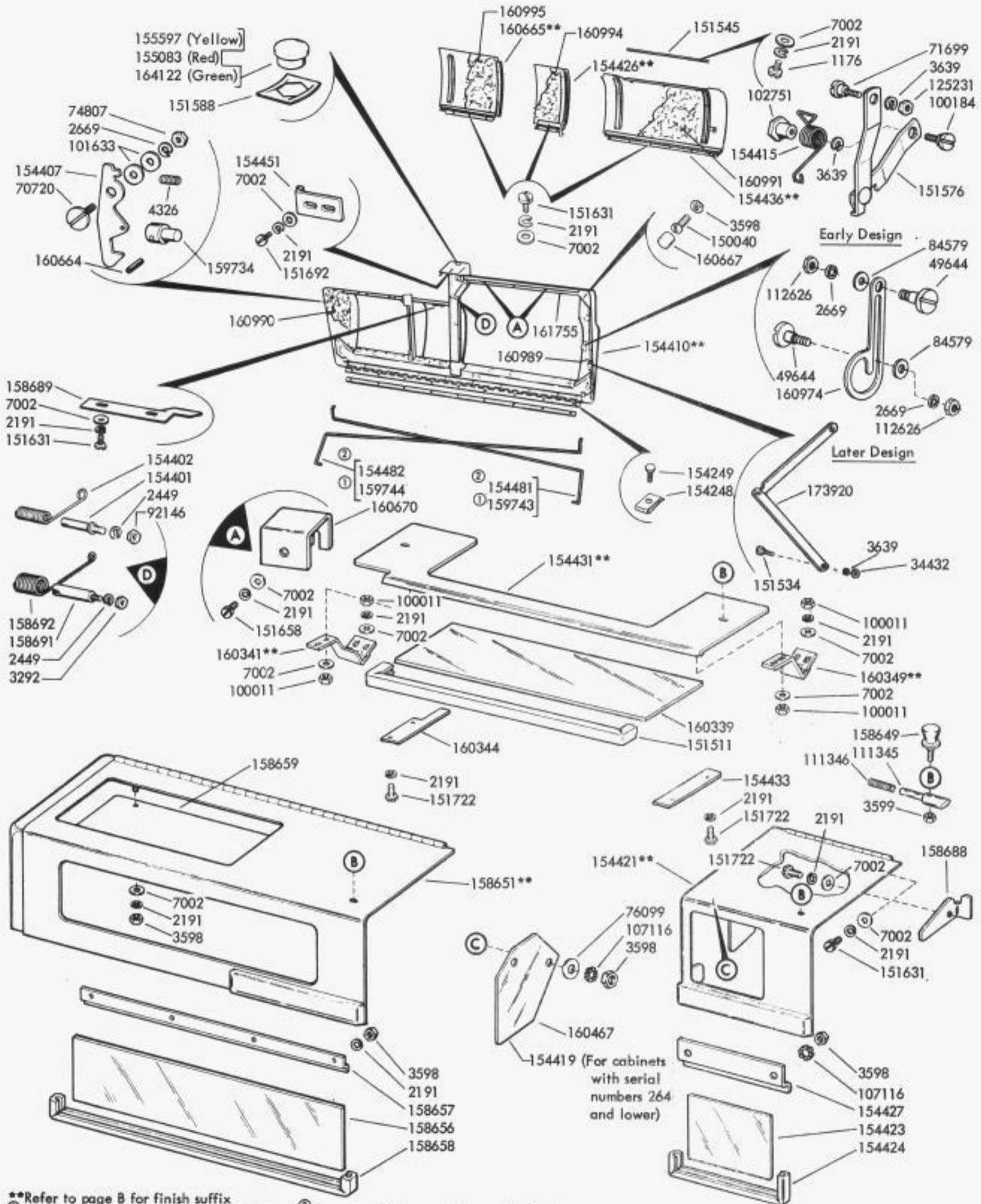


FIGURE 5-4. CABINET BASE TO ACCOMMODATE PULL-BACK TRANSMITTER



**Refer to page B for finish suffix

① Peculiar to Special Application Cabinets ② Peculiar to General Purpose Cabinets

FIGURE 5-5. CABINET DOME, LATCHES AND DOORS

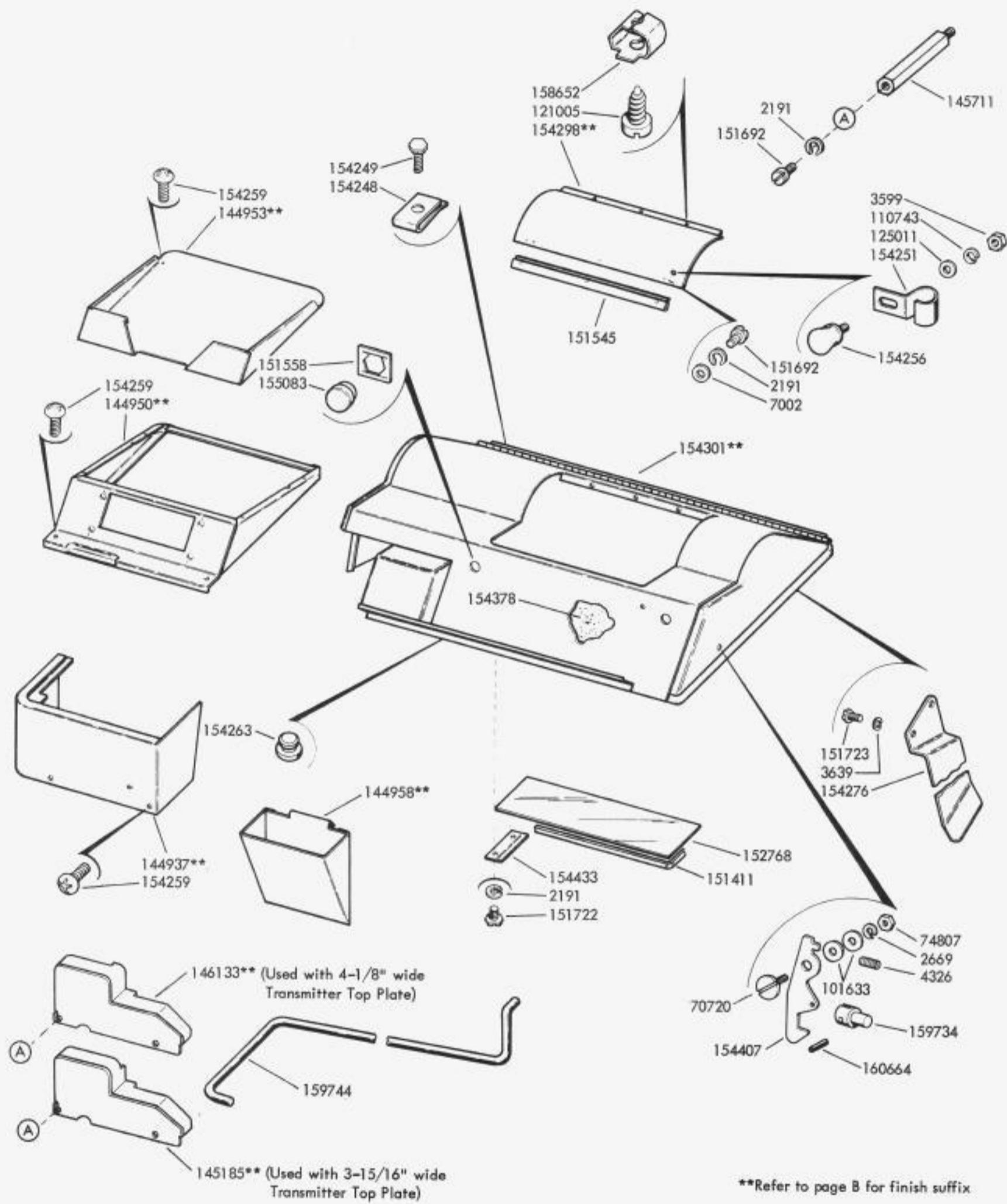


FIGURE 5-6. CABINET DOME TO ACCOMMODATE PULL-BACK TRANSMITTER

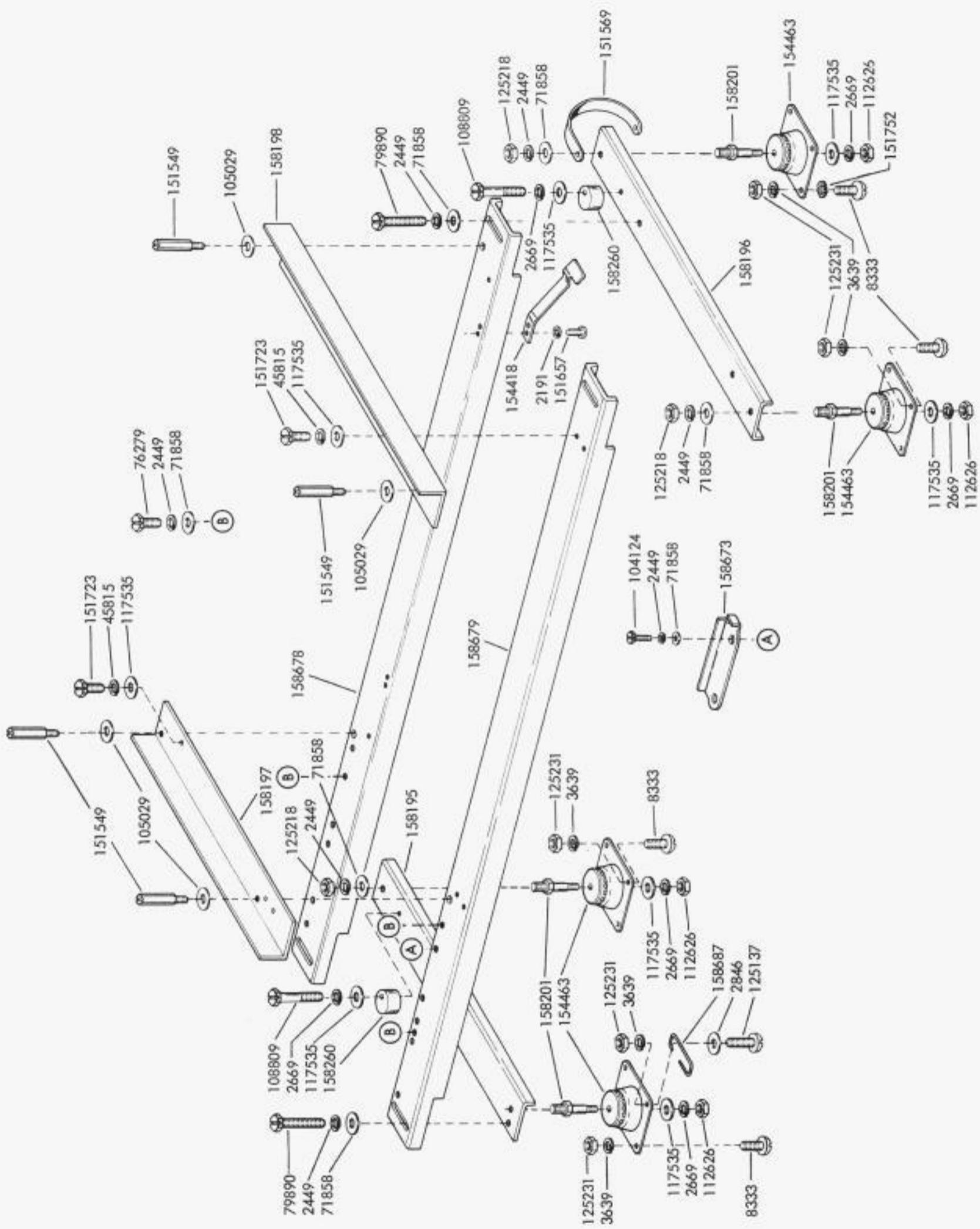
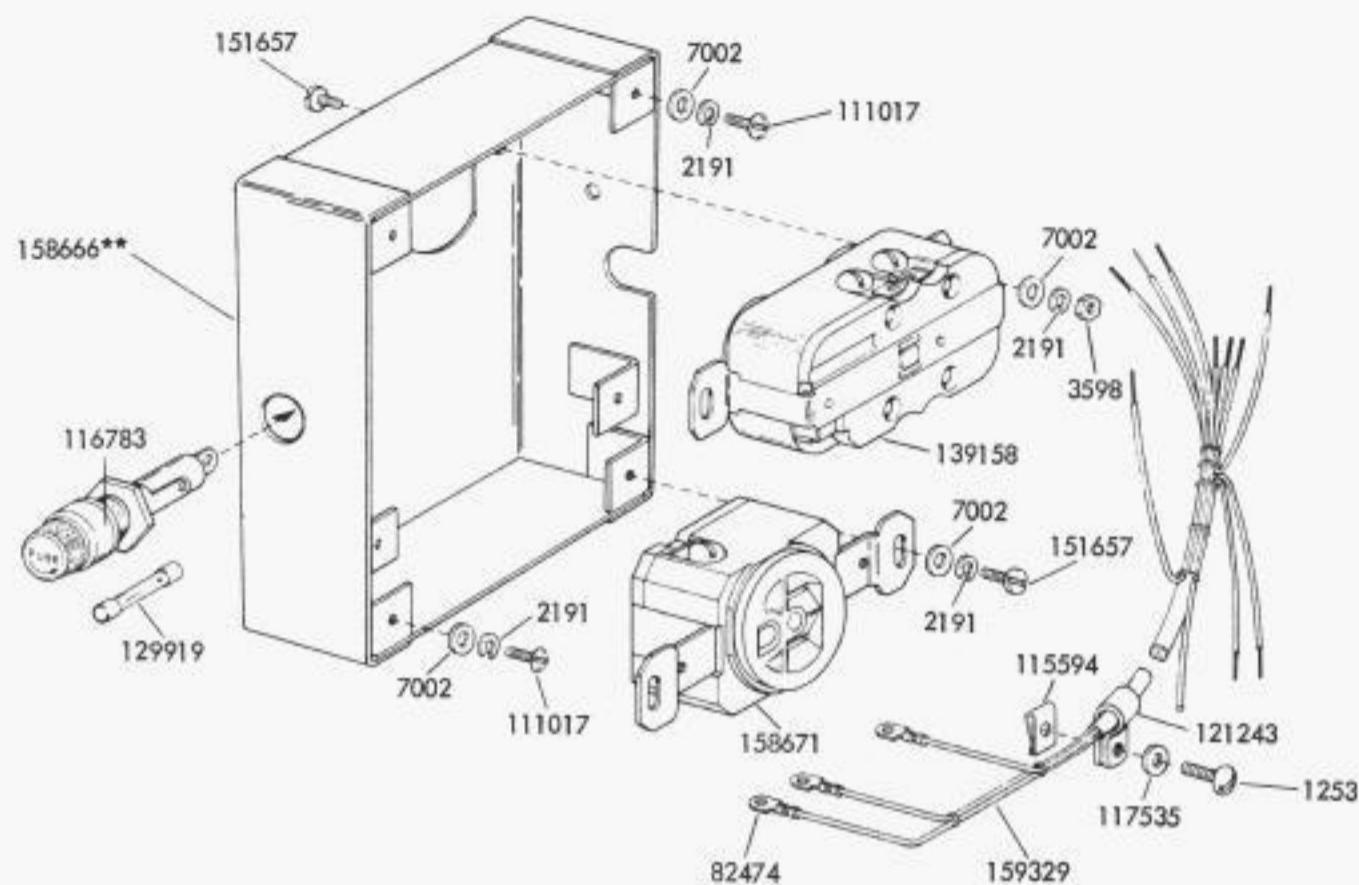
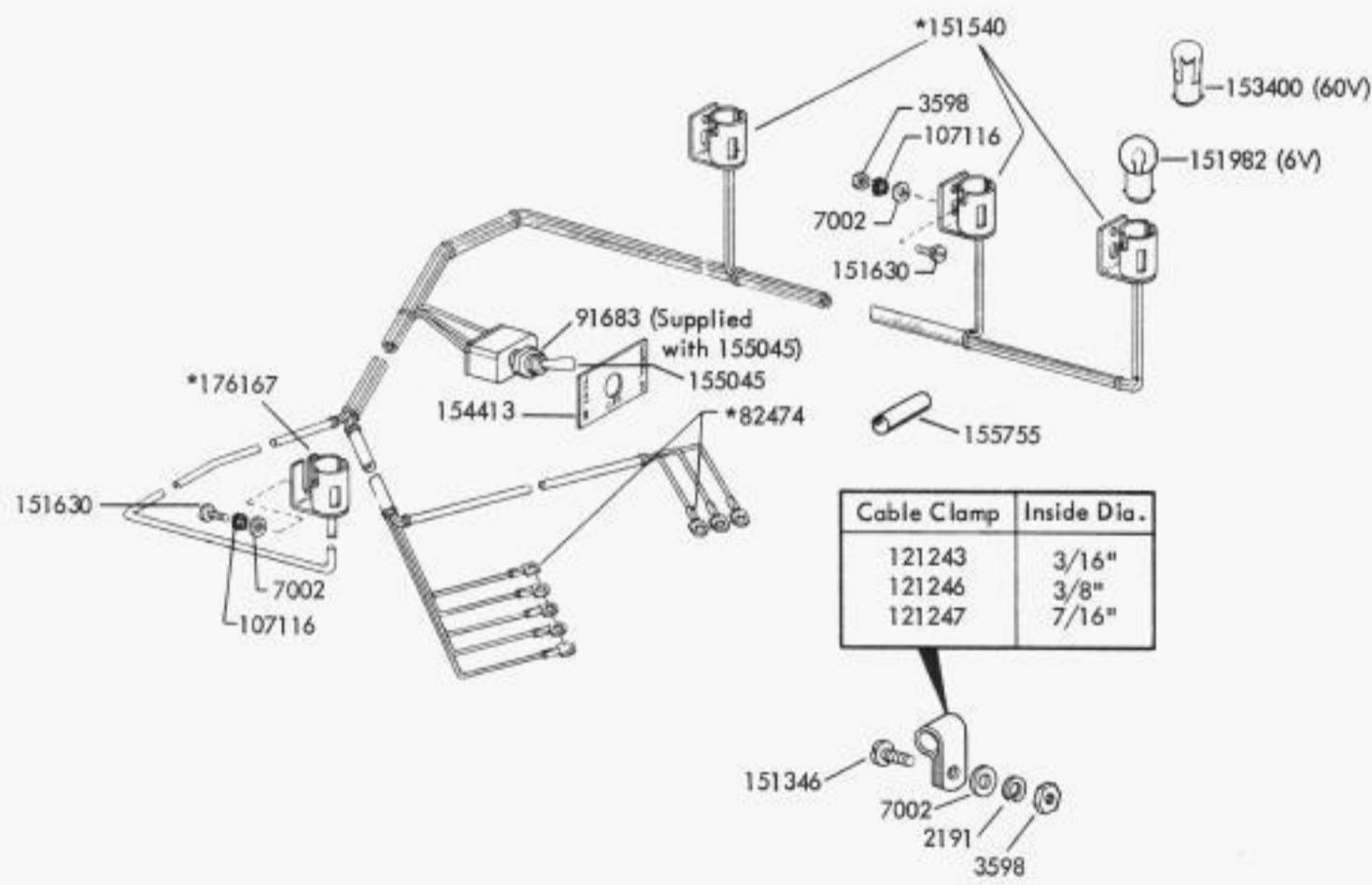


FIGURE 5-7. CRADLE ASSEMBLY



**Refer to page B for finish suffix

FIGURE 5-8. RECEPTACLE CONNECTORS AND OUTLET BOX



*Part of 154440

FIGURE 5-9. 154440 CABLE ASSEMBLY

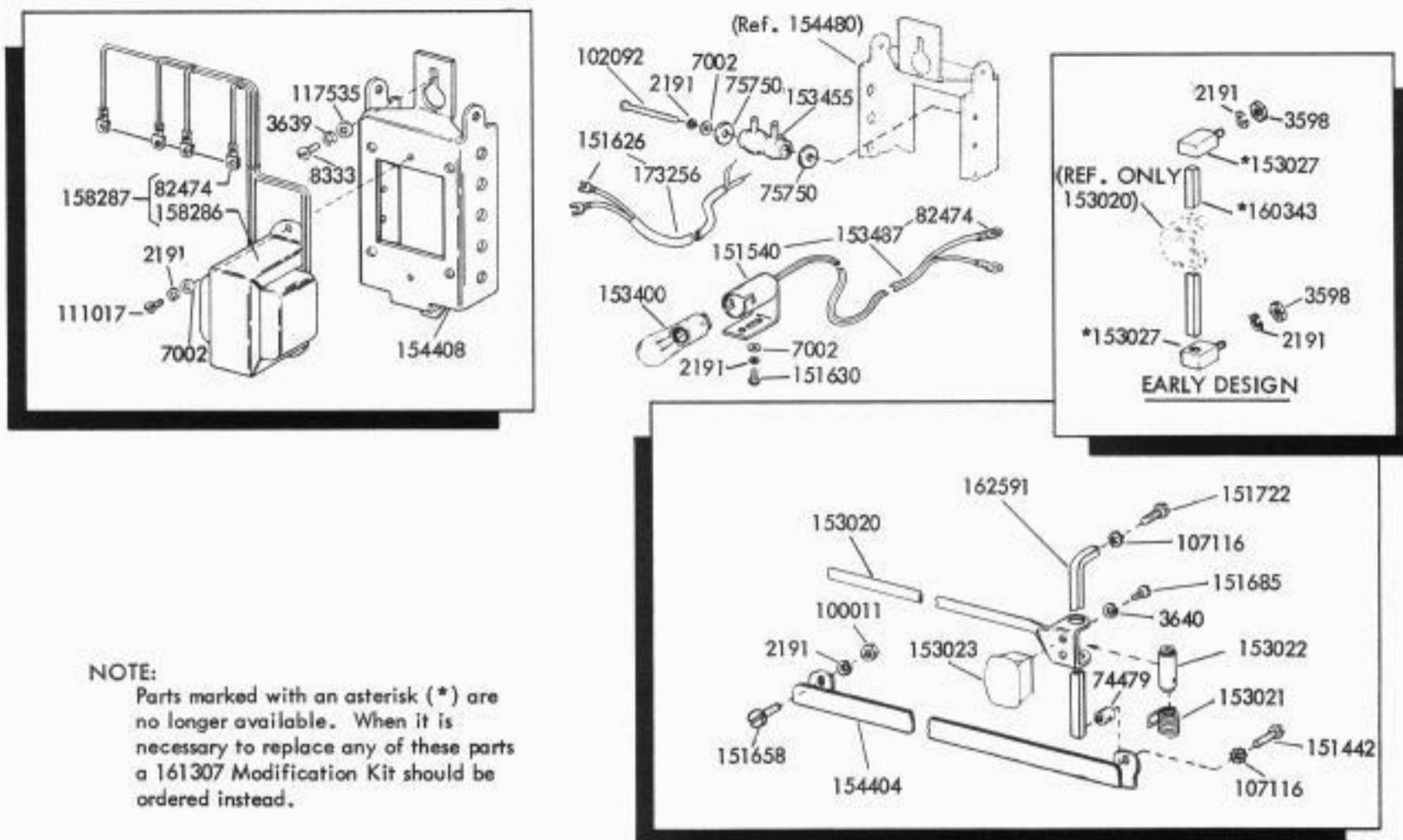


FIGURE 5-10. TRANSFORMER AND LINE GUIDE

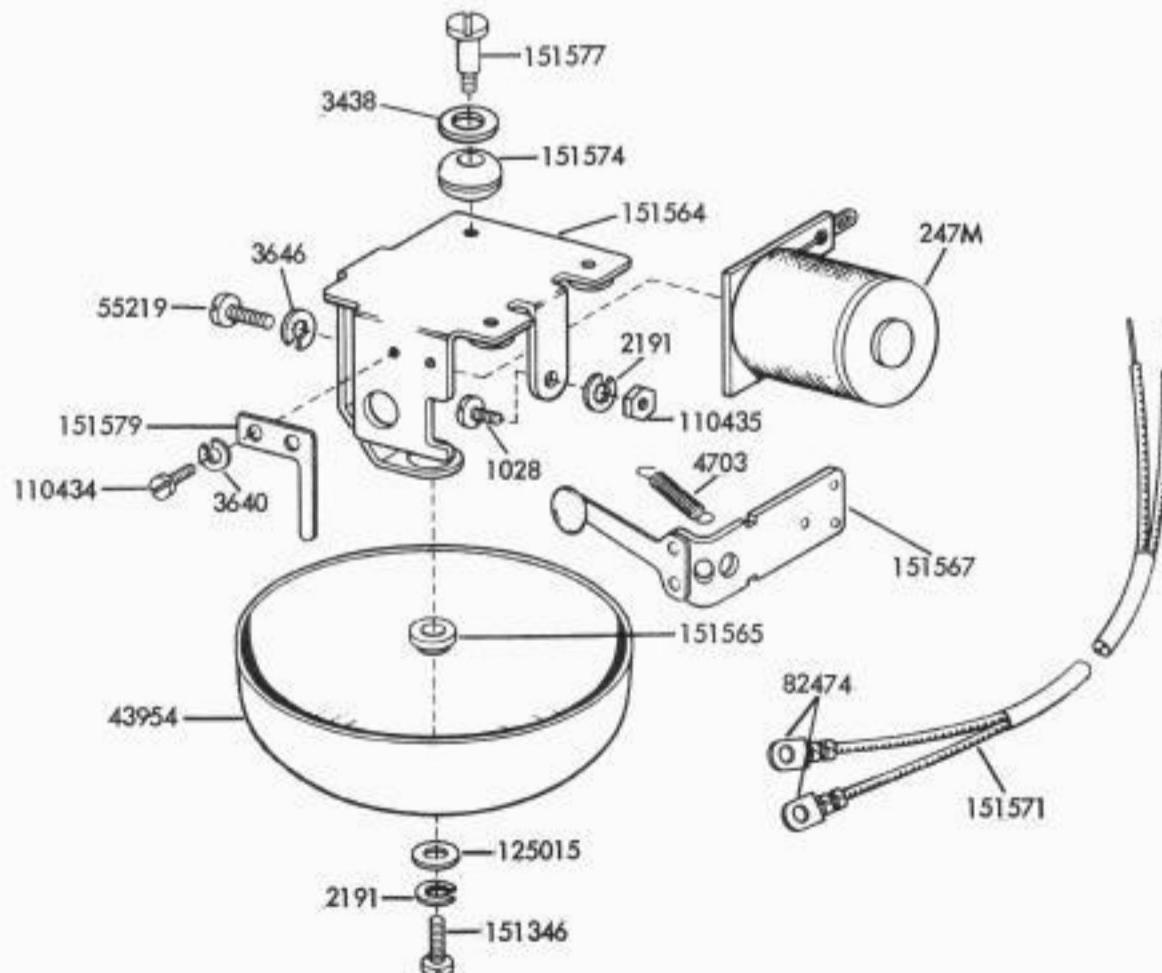


FIGURE 5-11. 151560 SIGNAL BELL ASSEMBLY

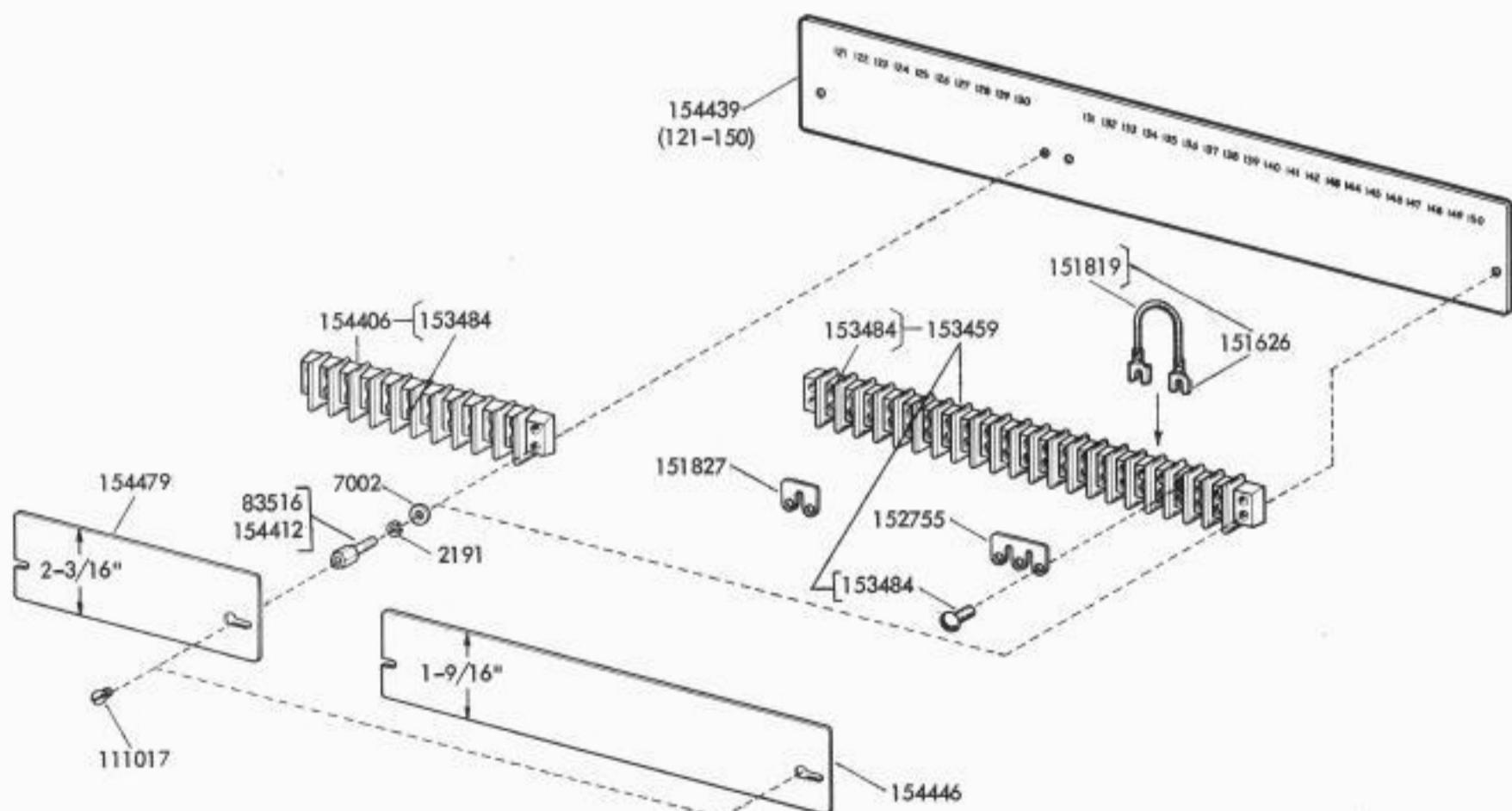
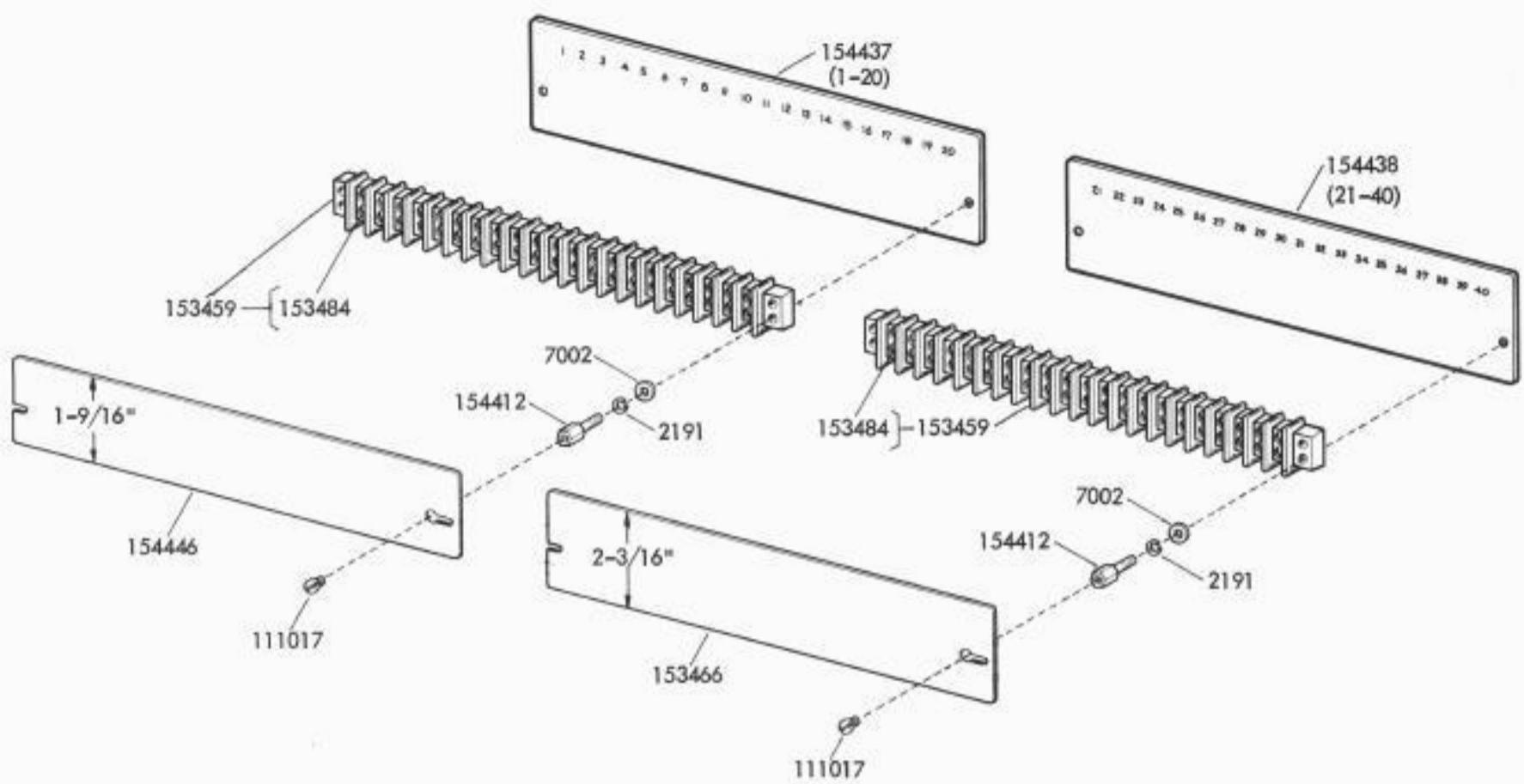


FIGURE 5-12. TERMINAL BLOCKS

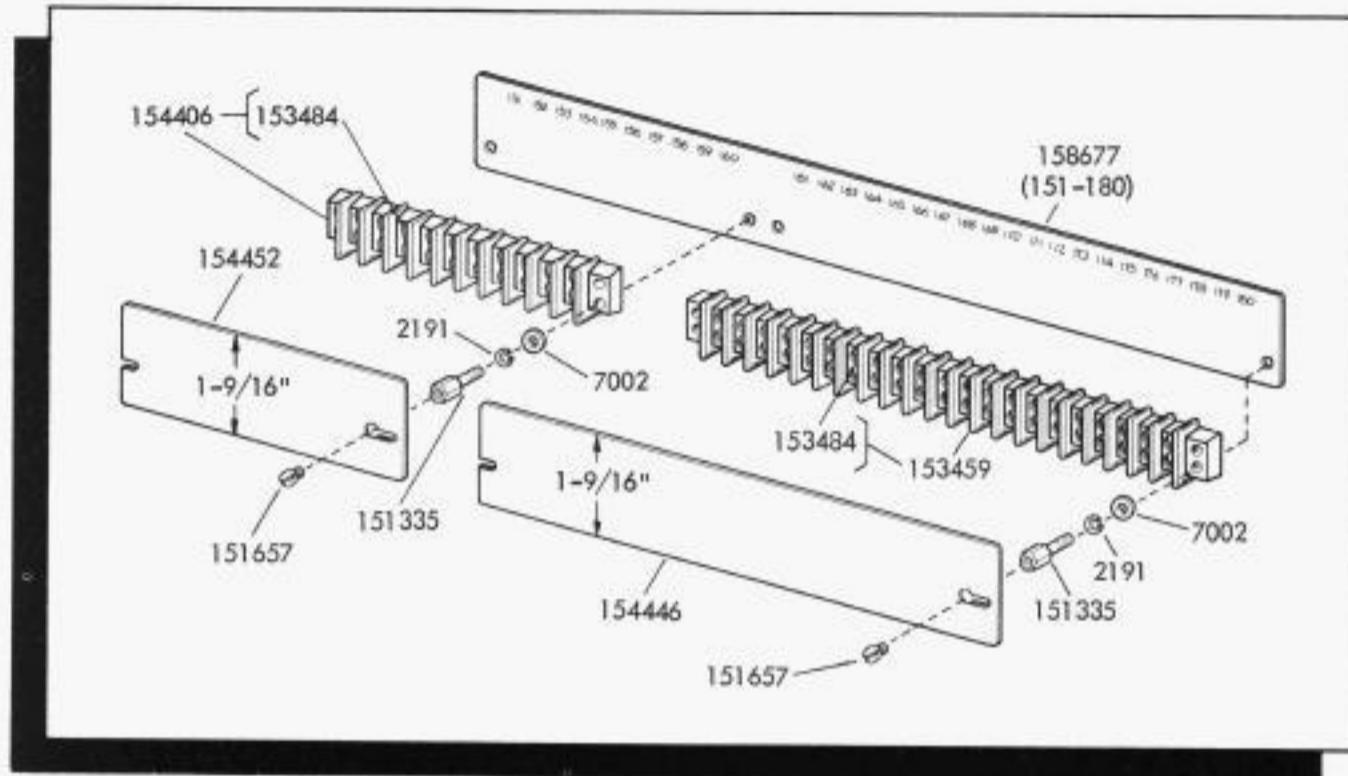


FIGURE 5-13. 159396 MODIFICATION KIT TO ADD AUXILIARY TERMINAL BLOCKS - TOP ROW LEFT REAR

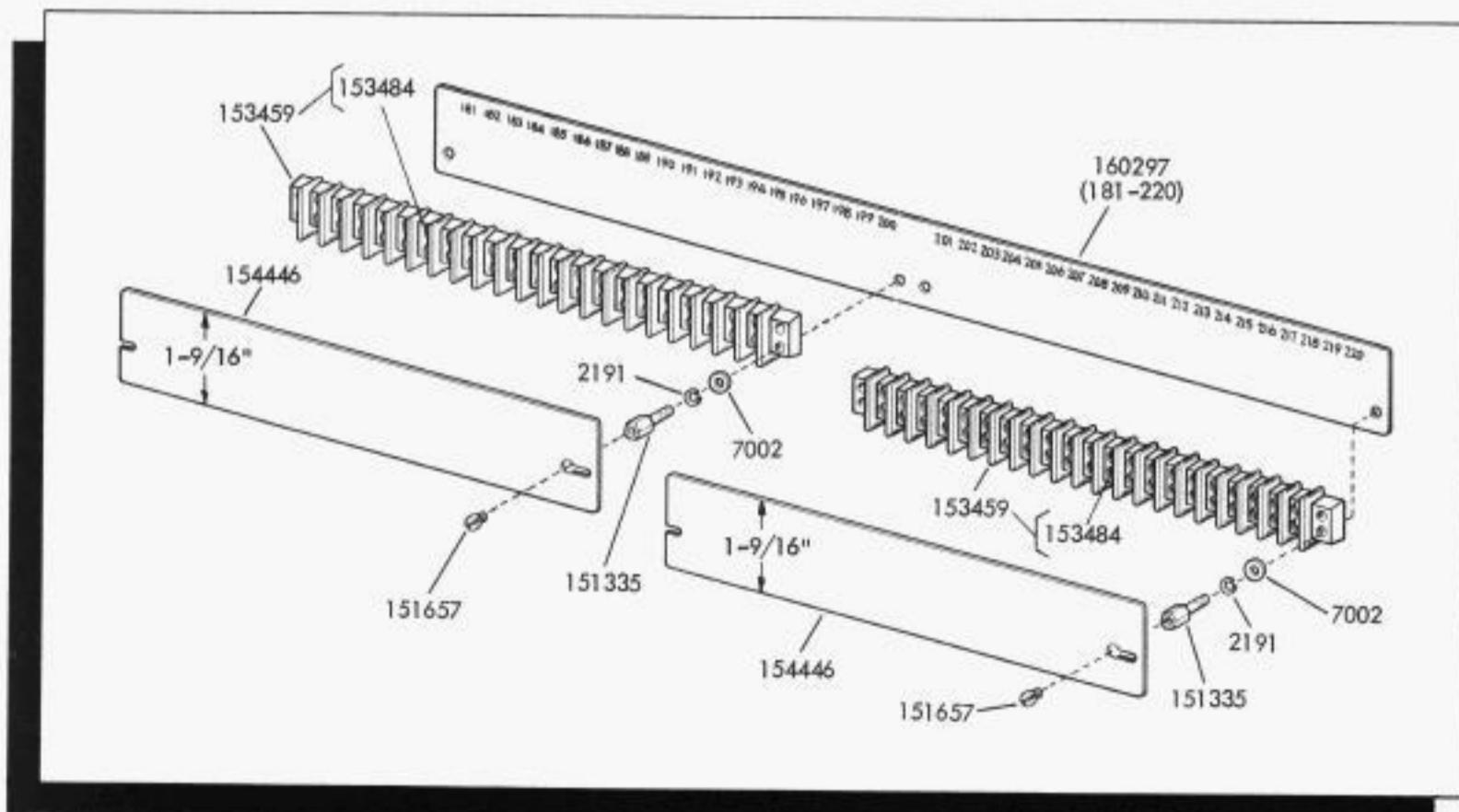


FIGURE 5-14. 159384 MODIFICATION KIT TO ADD AUXILIARY TERMINAL BLOCKS - TOP ROW RIGHT REAR

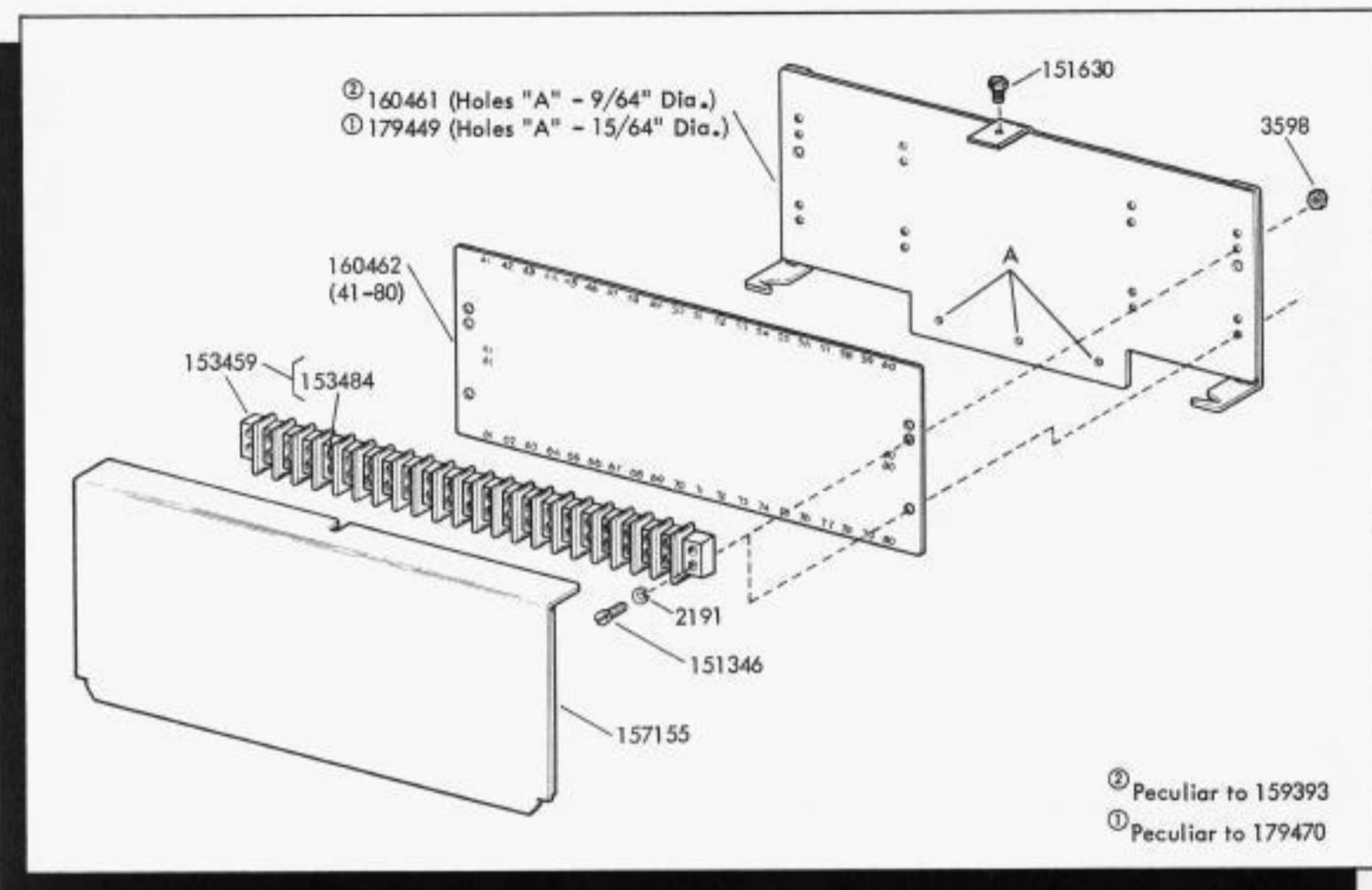


FIGURE 5-15. 159393 MODIFICATION KIT AND 179470 ASSEMBLY TO ADD AUXILIARY TERMINAL BLOCK - RIGHT SIDE

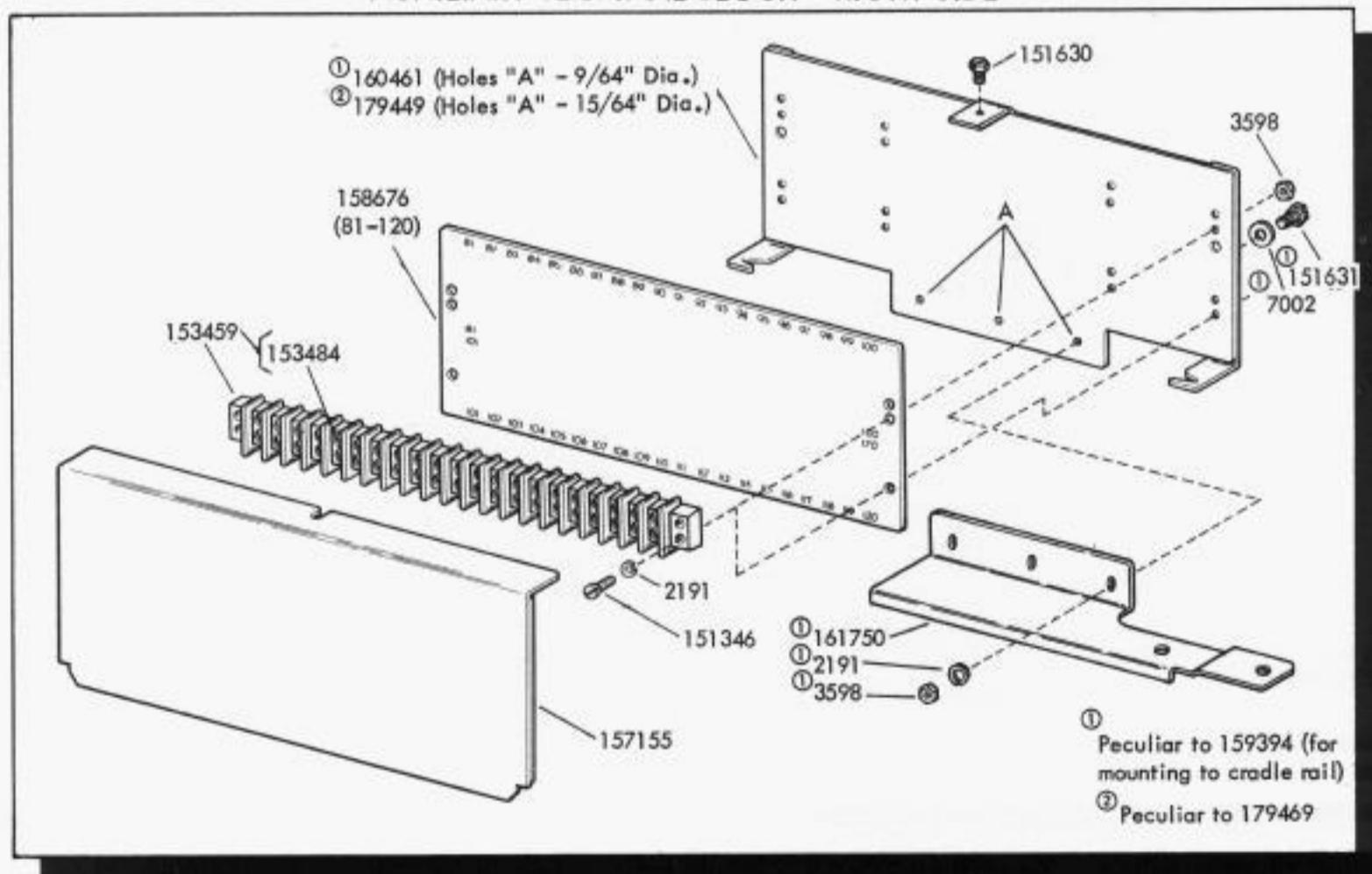


FIGURE 5-16. 159394 MODIFICATION KIT AND 179469 ASSEMBLY TO ADD AUXILIARY TERMINAL BLOCK - LEFT SIDE

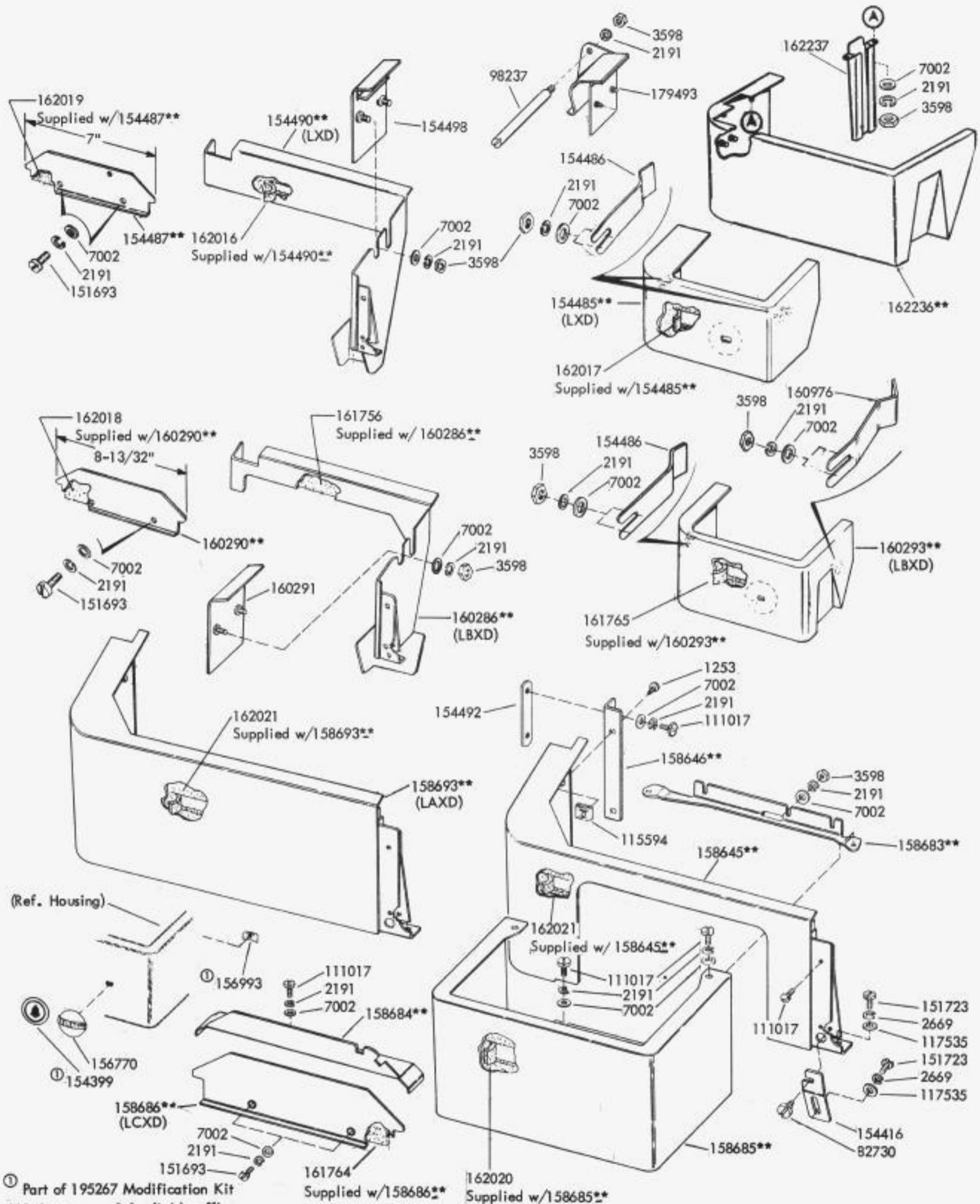


FIGURE 5-17. TRANSMITTER AND TRANSMITTER DISTRIBUTOR HOUSINGS

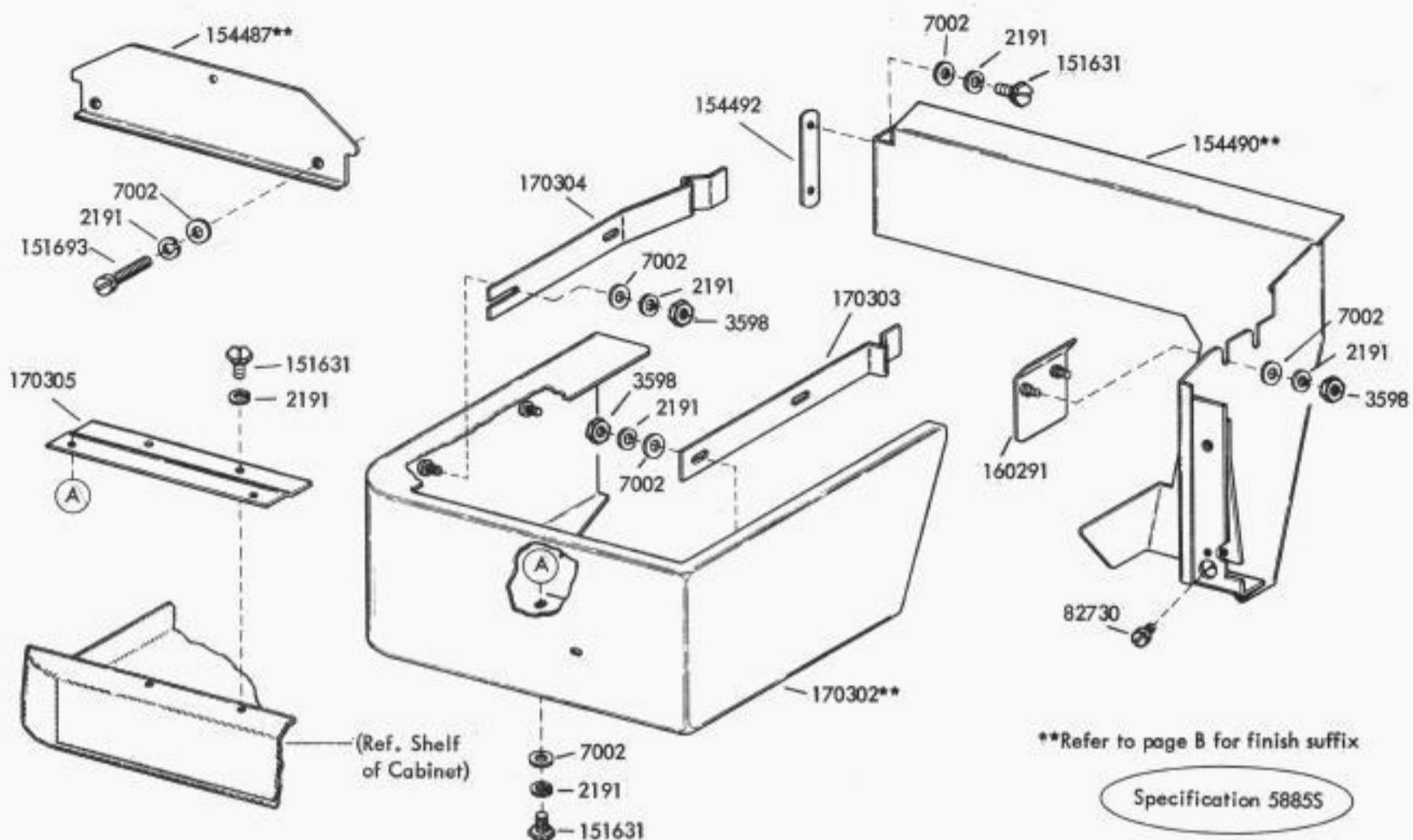


FIGURE 5-18. 170272 MODIFICATION KIT TO PROVIDE DUAL TRANSMITTER DISTRIBUTOR HOUSING**

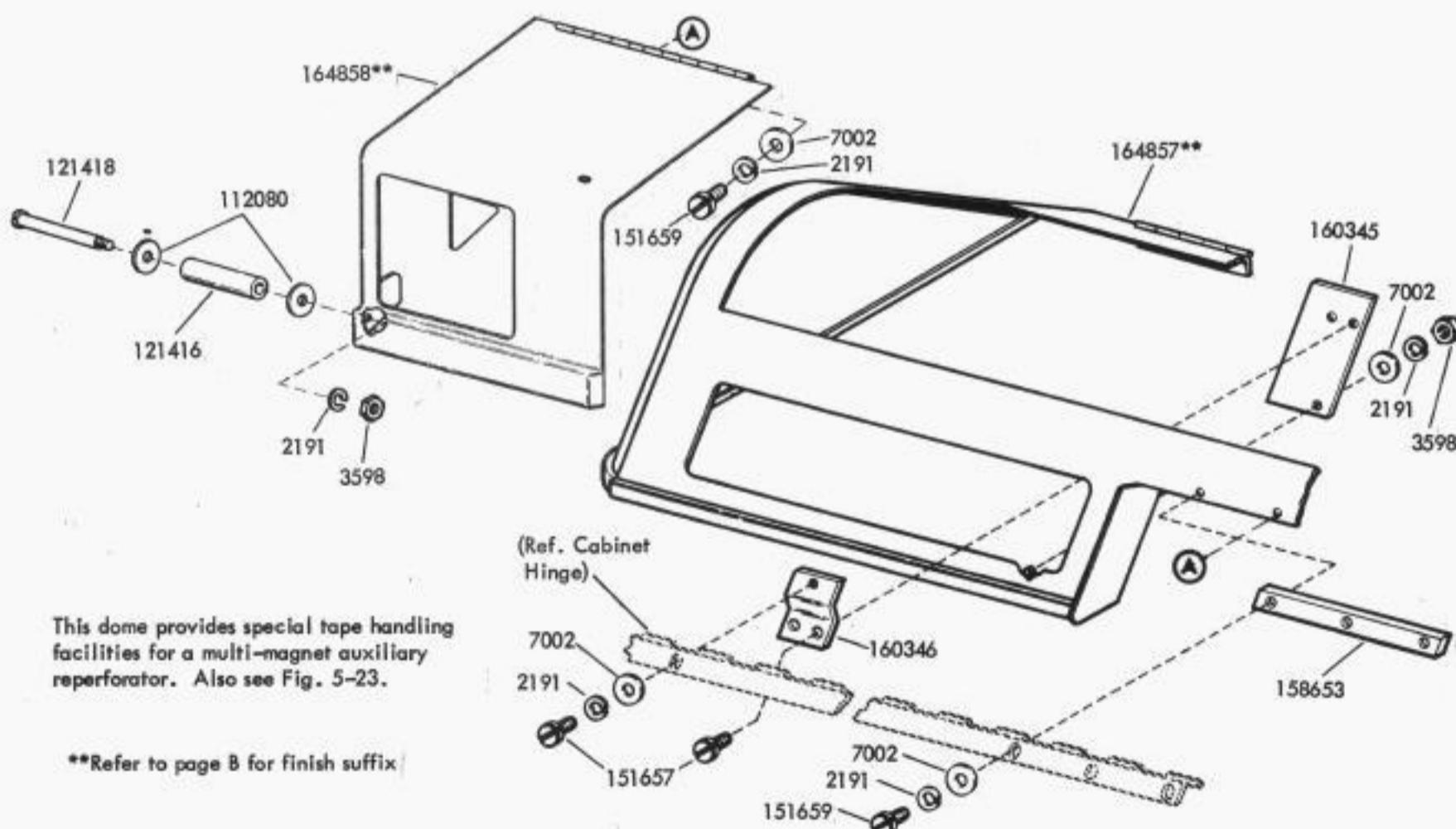


FIGURE 5-19. CABINET DOME VARIABLE FEATURES

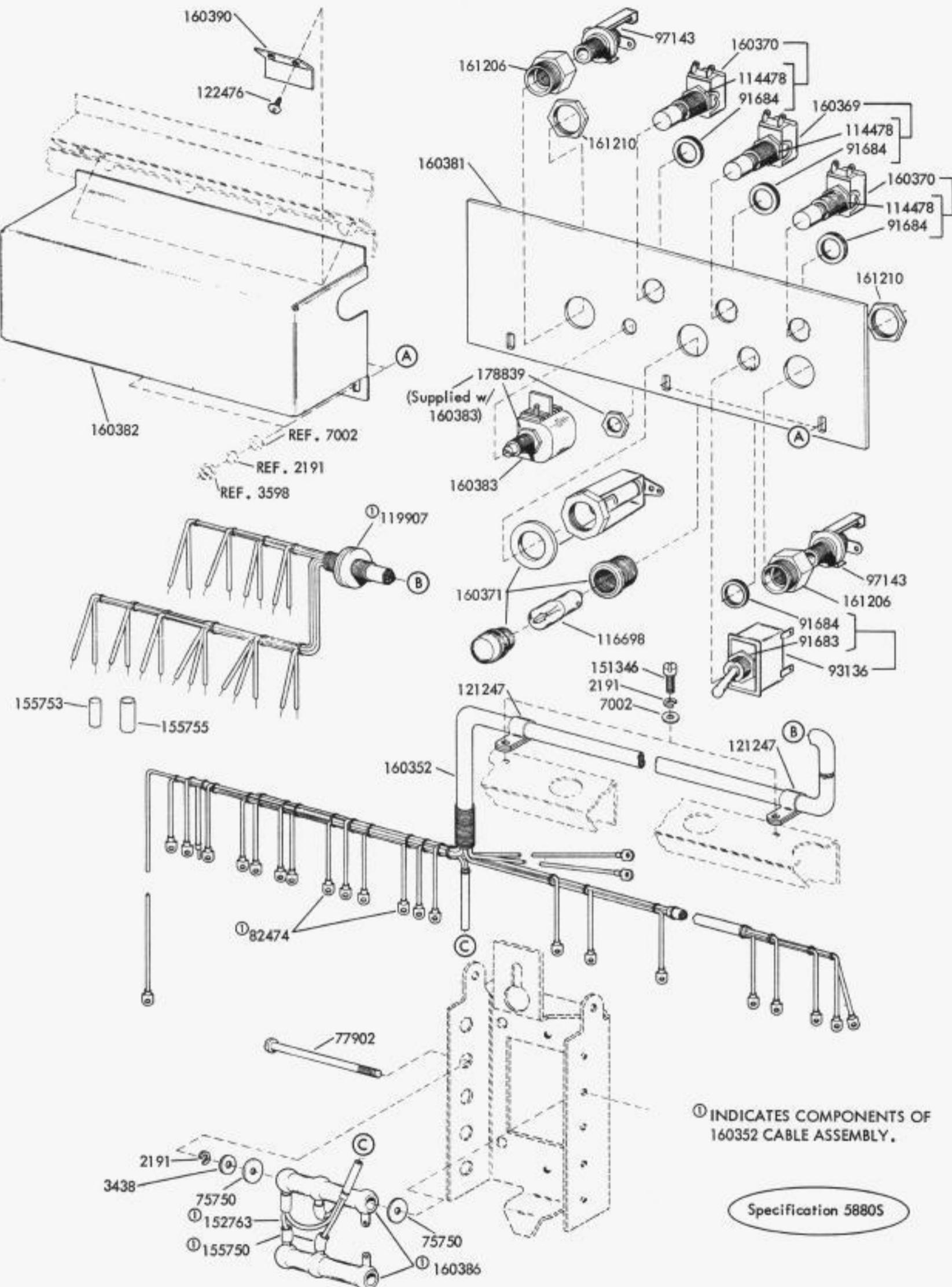


FIGURE 5-20. 160355 MODIFICATION KIT TO PROVIDE CONTROL PANEL FOR TRANSMITTER DISTRIBUTOR

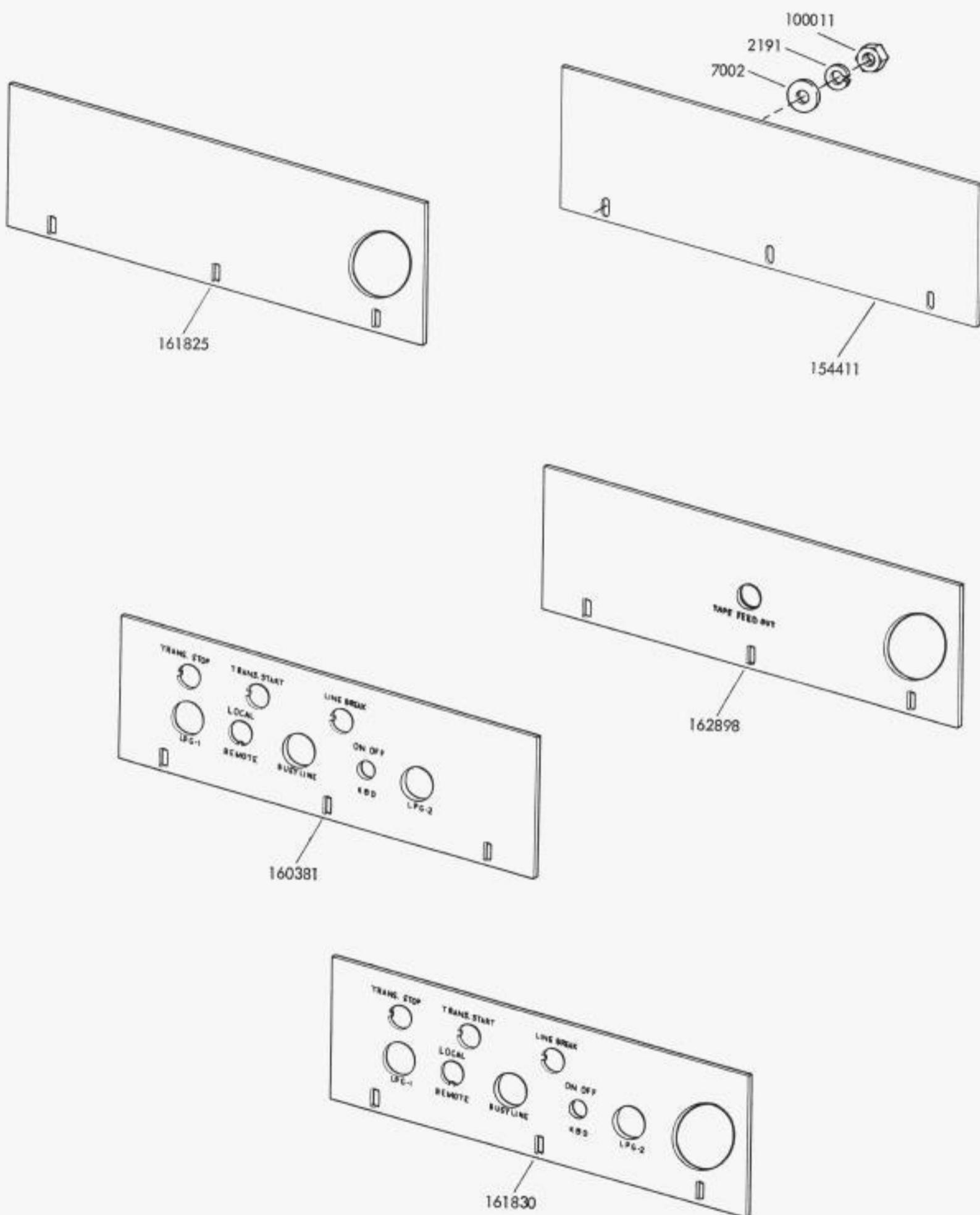


FIGURE 5-21. CONTROL PANELS

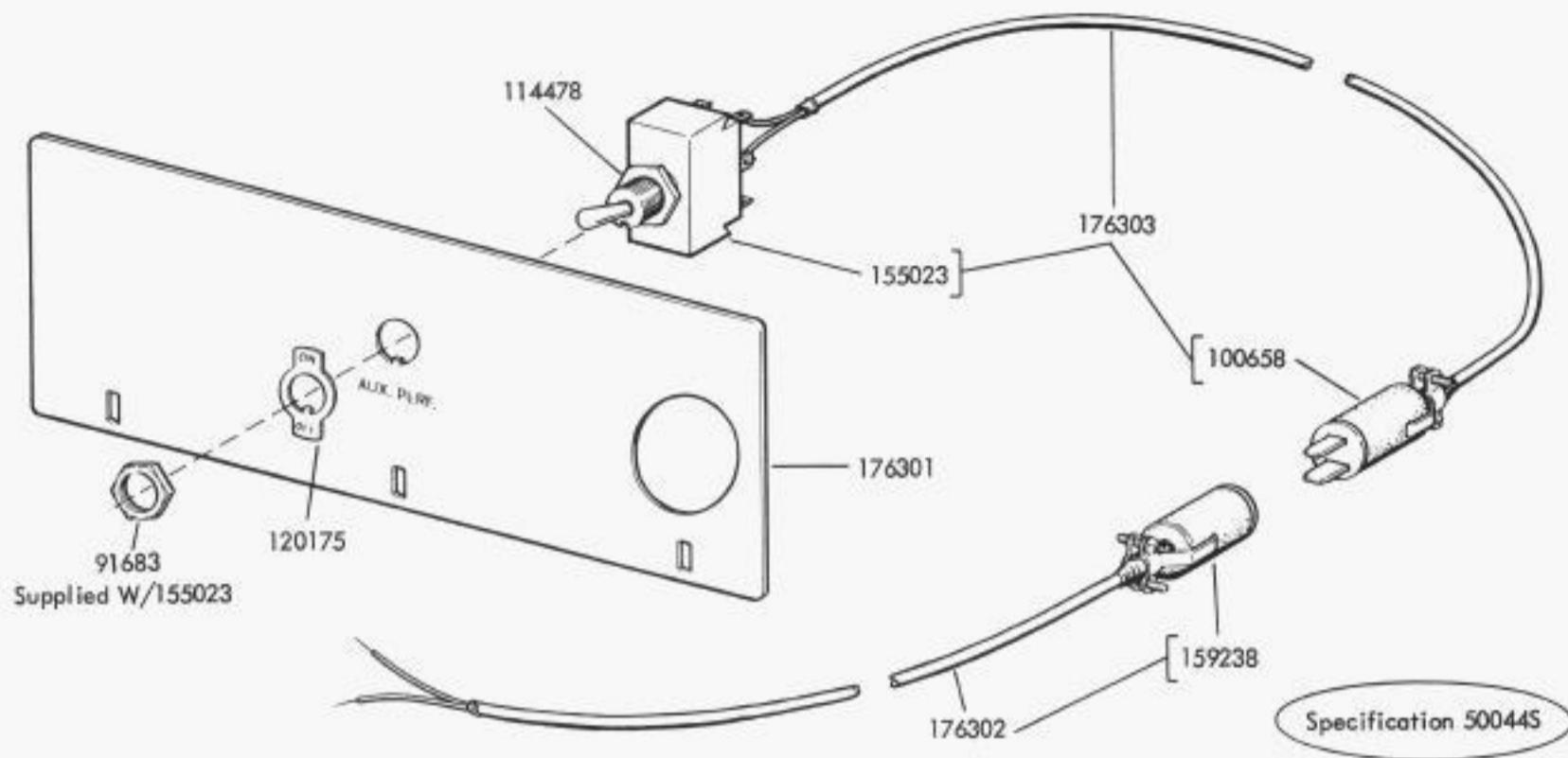


FIGURE 5-22. 176300 MODIFICATION KIT TO PROVIDE AUXILIARY REPERFORATOR MOTOR CONTROL PANEL

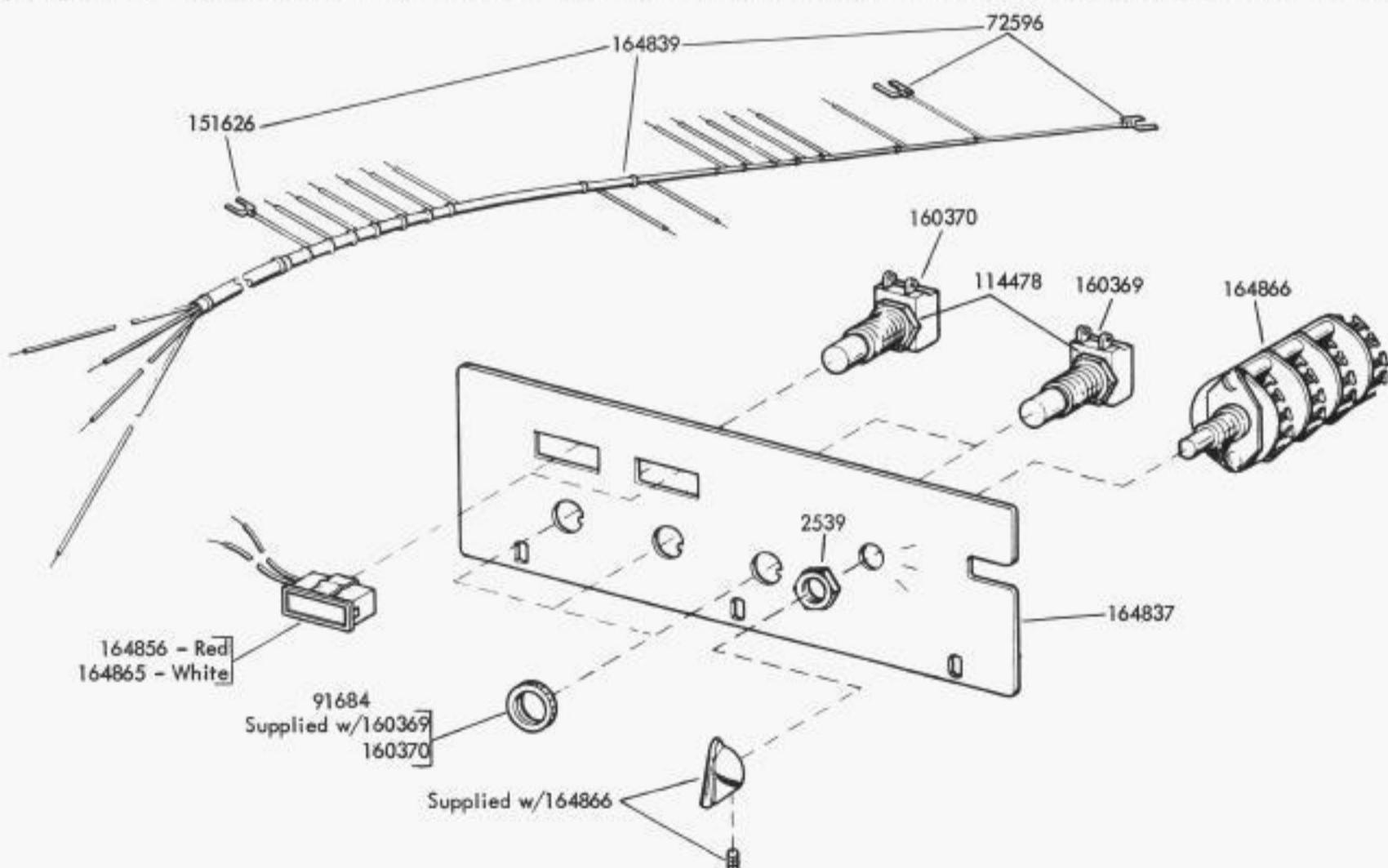


FIGURE 5-23. 164838 CONTROL PANEL ASSEMBLY

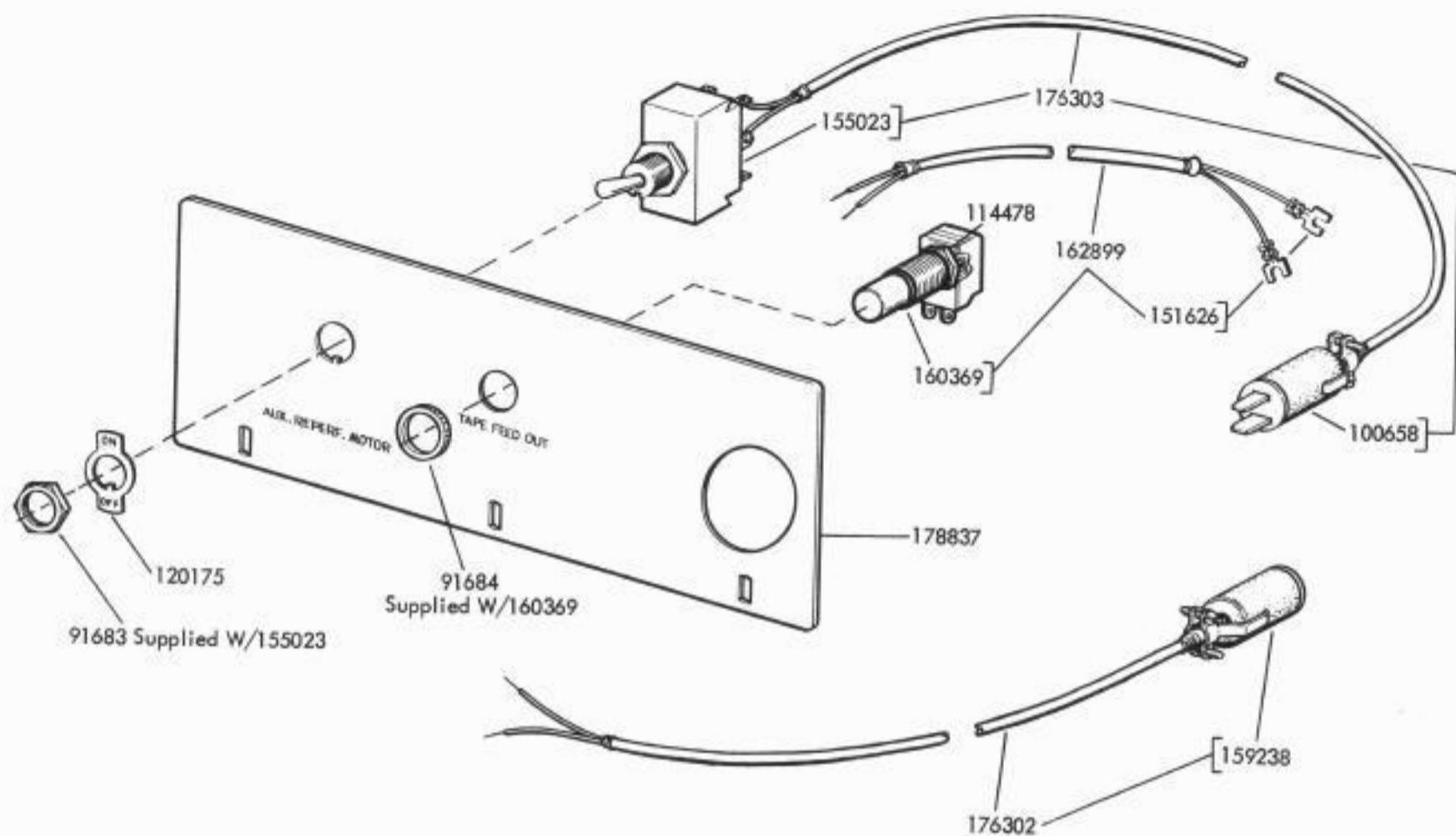


FIGURE 5-24. 178838 MODIFICATION KIT TO RELOCATE POWER SWITCH FROM AUXILIARY BASE TO OUTSIDE OF CABINET

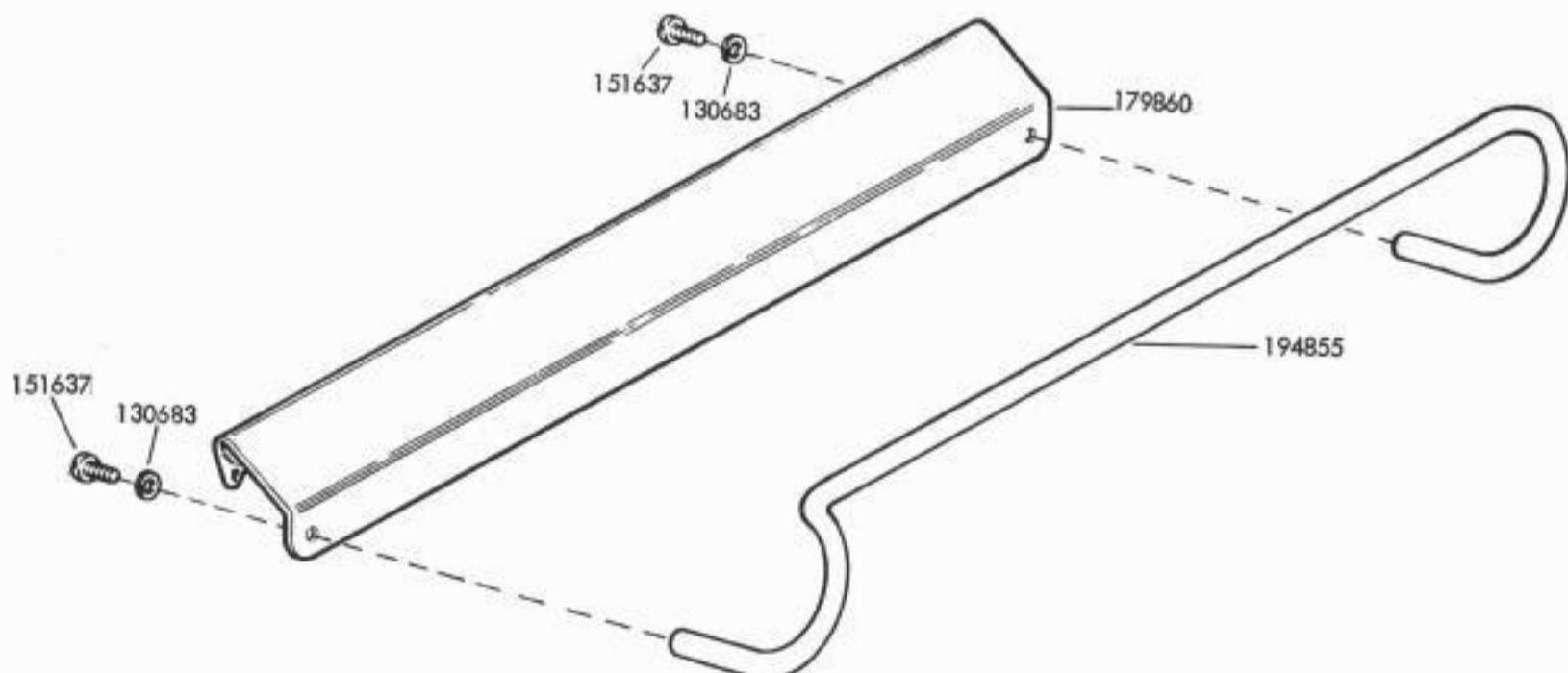


FIGURE 5-25. 194861 MODIFICATION KIT TO PROVIDE TAPE GUIDE

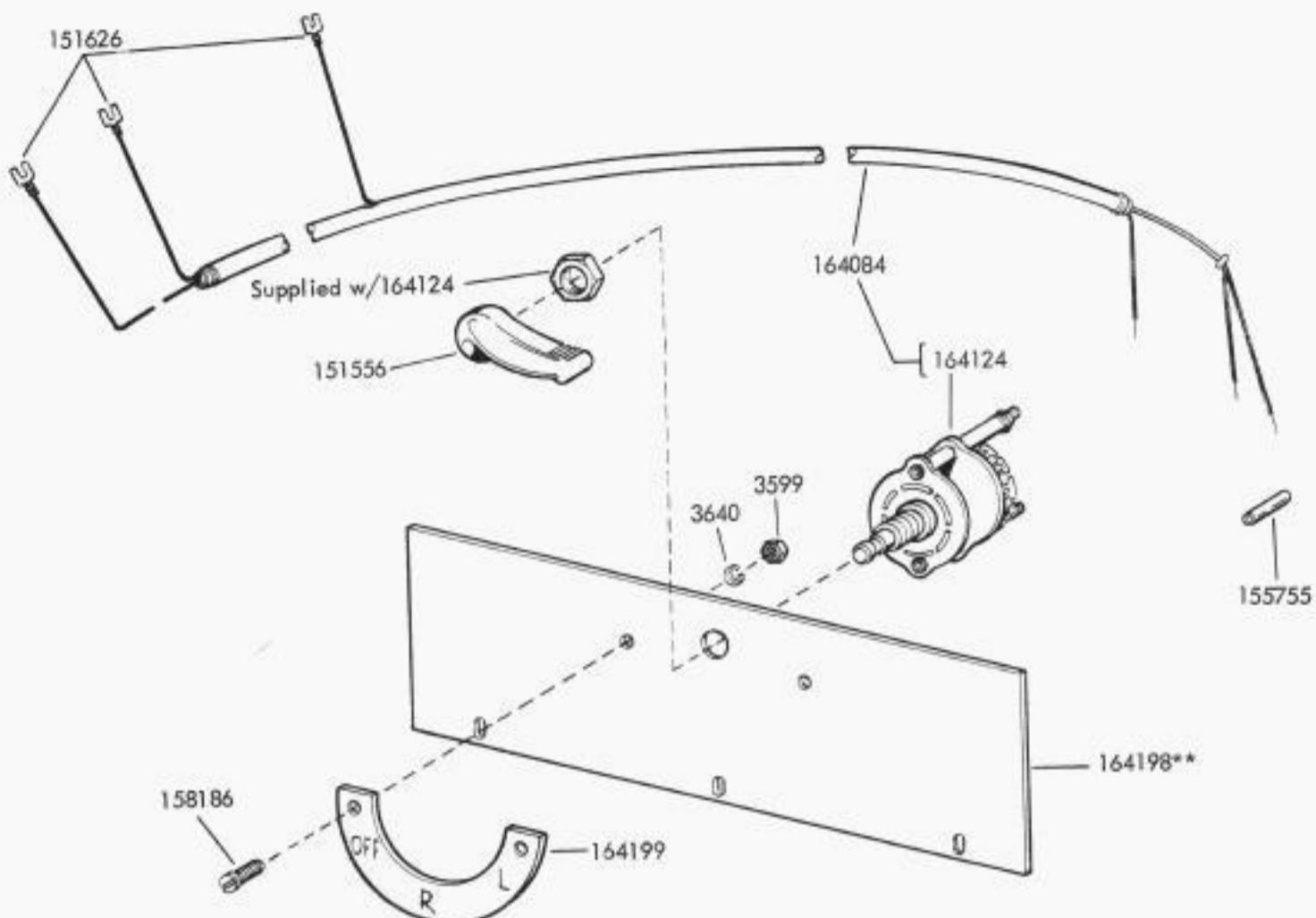


FIGURE 5-26. 164197** MODIFICATION KIT TO PROVIDE CONTROL PANEL

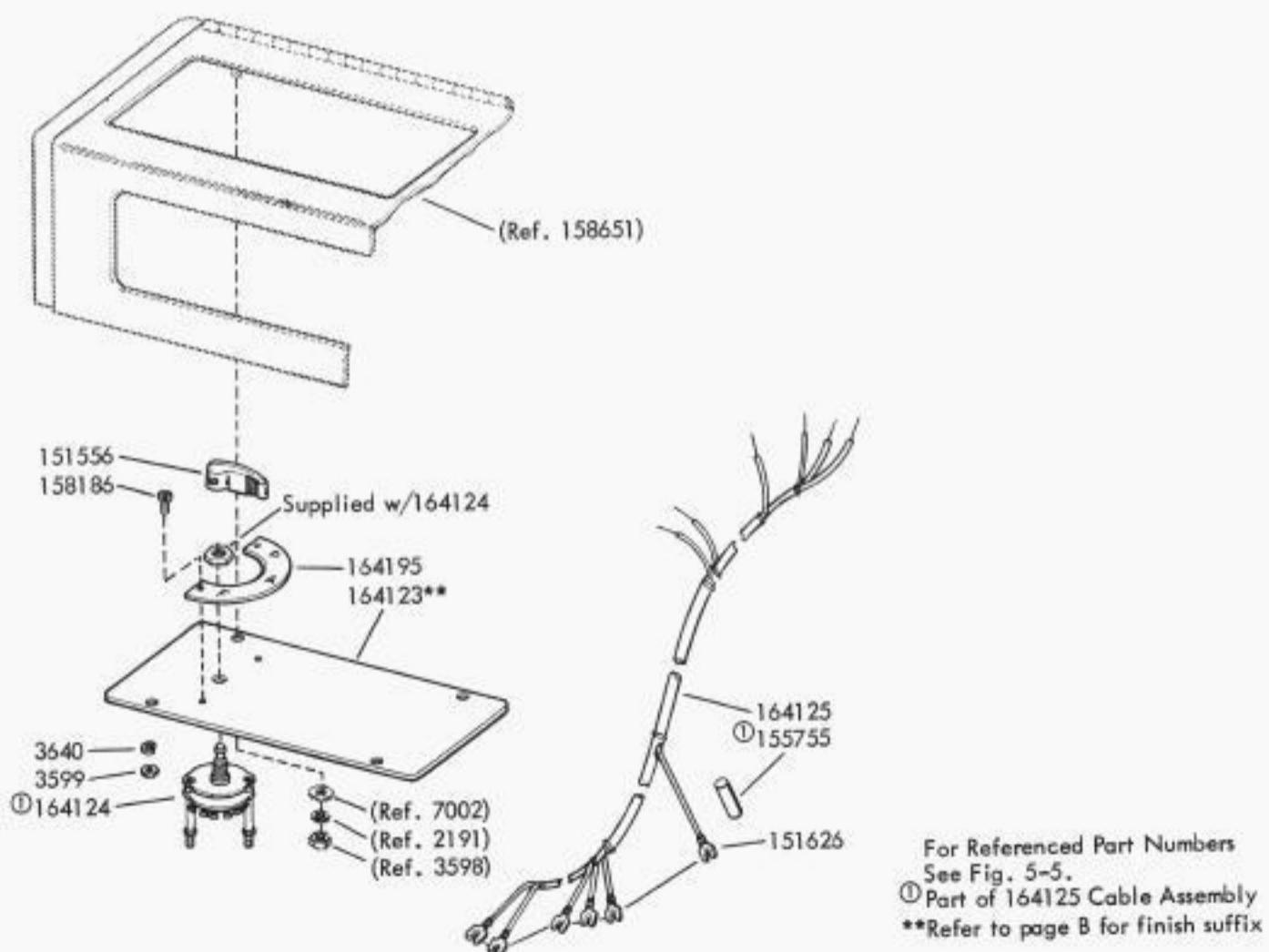
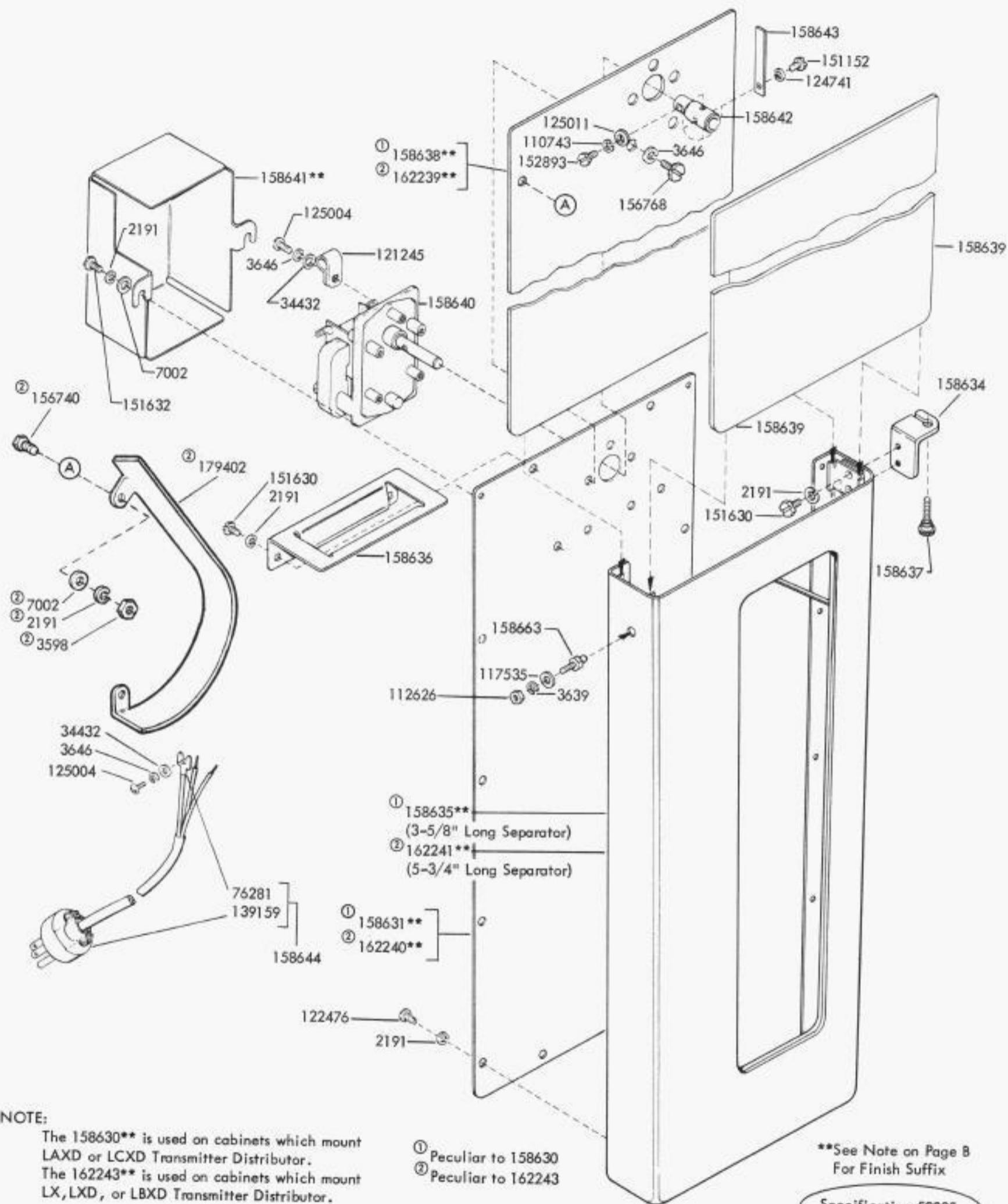
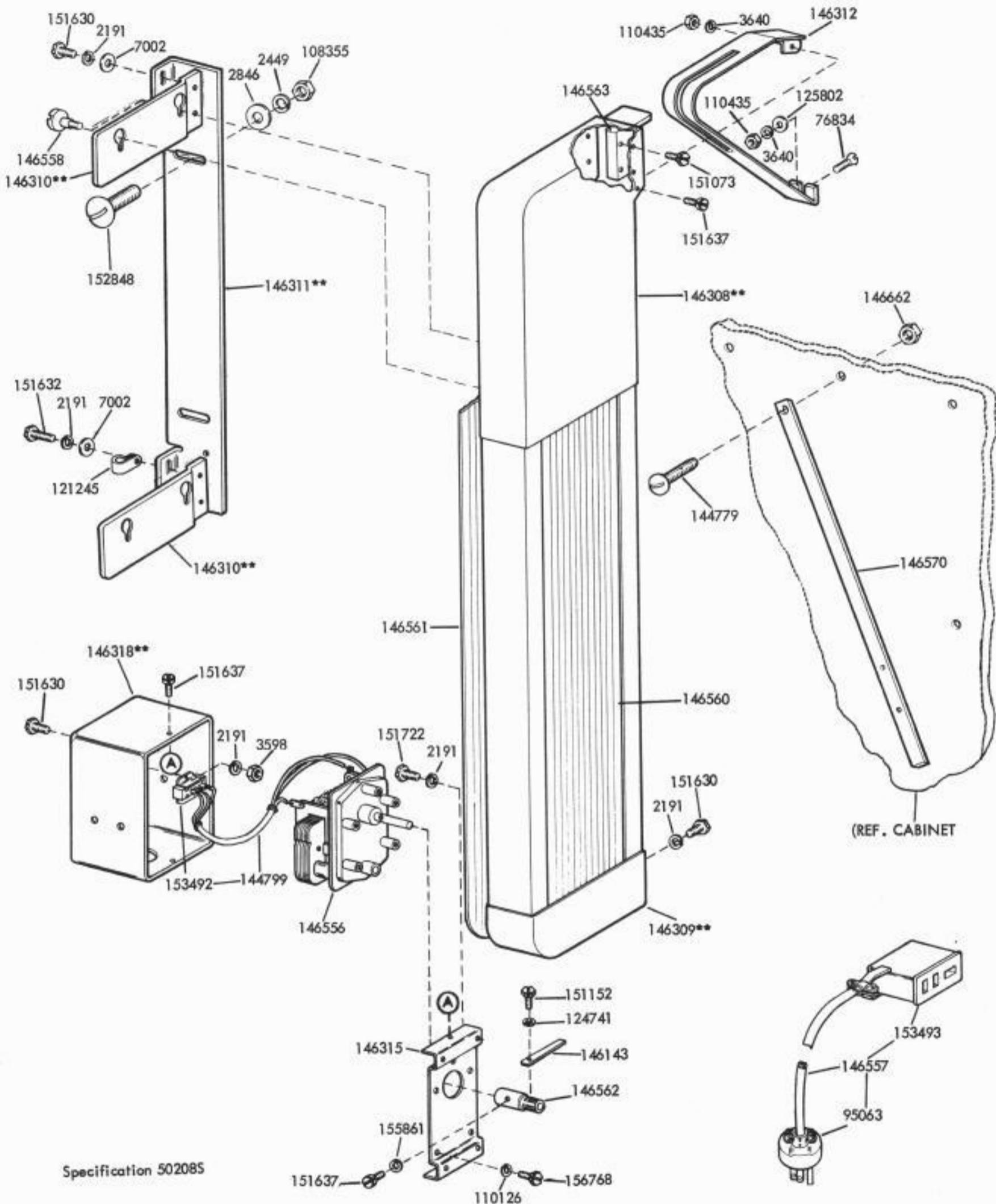


FIGURE 5-27. 164120** MODIFICATION KIT TO PROVIDE CONTROL PANEL

**NOTE:**

The 158630** is used on cabinets which mount LAXD or LCXD Transmitter Distributor.
The 162243** is used on cabinets which mount LX, LXD, or LBXD Transmitter Distributor.

FIGURE 5-28. 158630 (FOR LAXD, LCXD) AND 162243** (FOR LX, LXD, AND LBXD) TAPE BIN ASSEMBLIES**



**Refer to page B for finish suffix

FIGURE 5-29. 145898** MODIFICATION KIT TO PROVIDE A TAPE BIN FOR STORED TAPE OF A MESSAGE IN TRANSMISSION

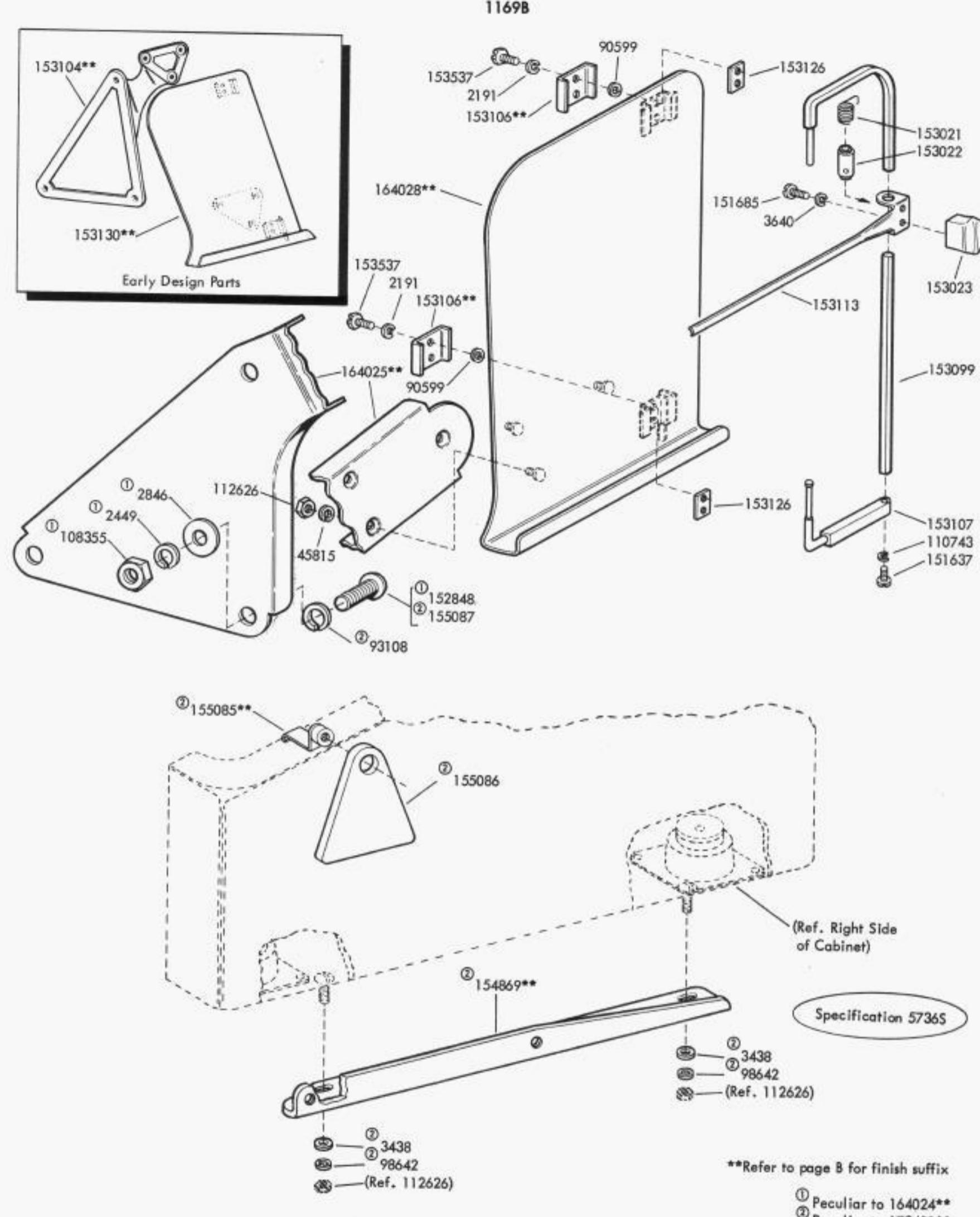
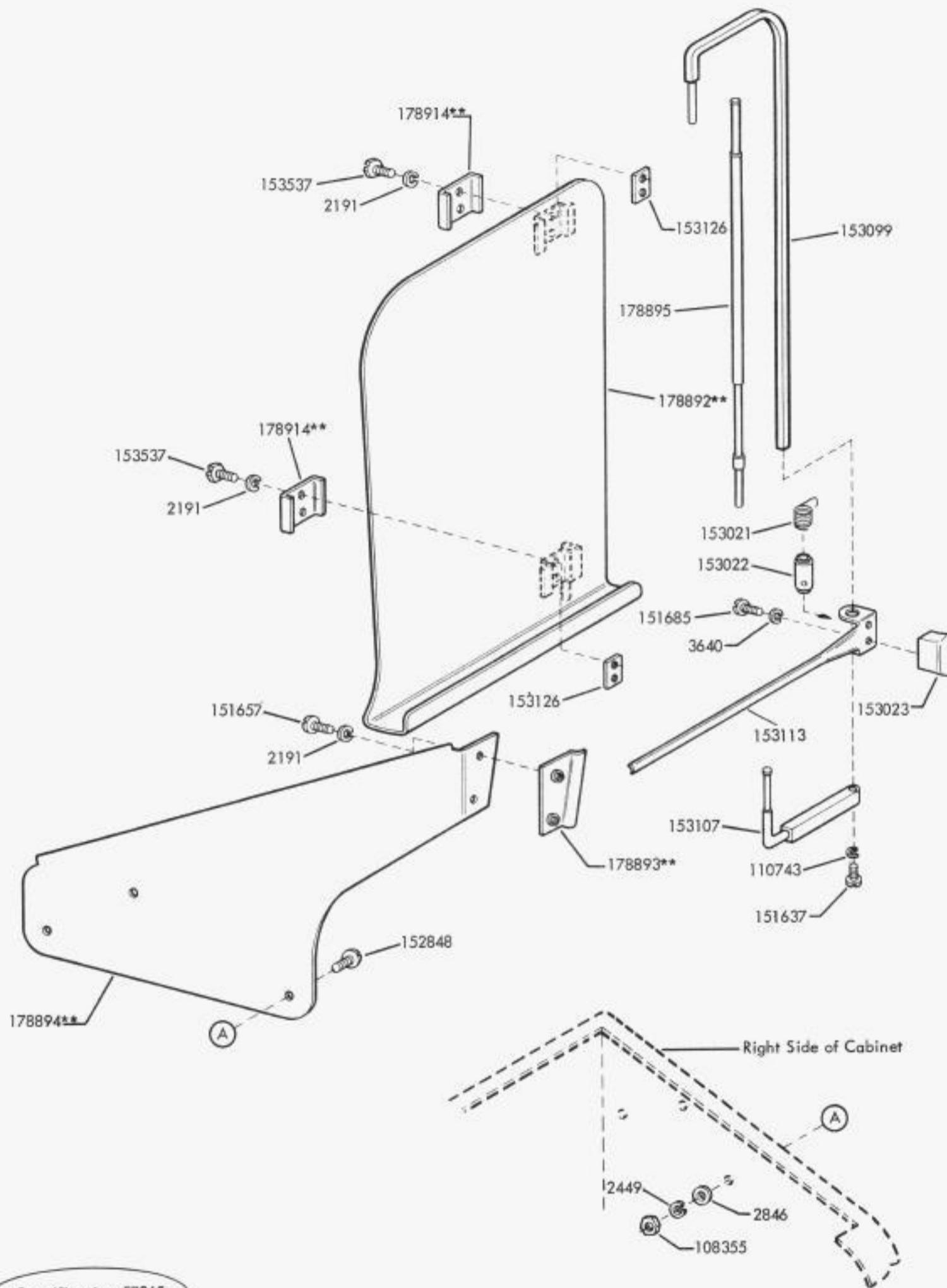


FIGURE 5-30. 164024** (FOR FLOOR MODEL) AND 173400** (FOR TABLE MODEL) MODIFICATION KITS TO PROVIDE OFFSET COPYHOLDER



Specification 57365

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FIGURE 5-31. 178897** MODIFICATION KIT TO PROVIDE A PIVOTED OFFSET COPYHOLDER FOR FLOOR MODEL CABINET

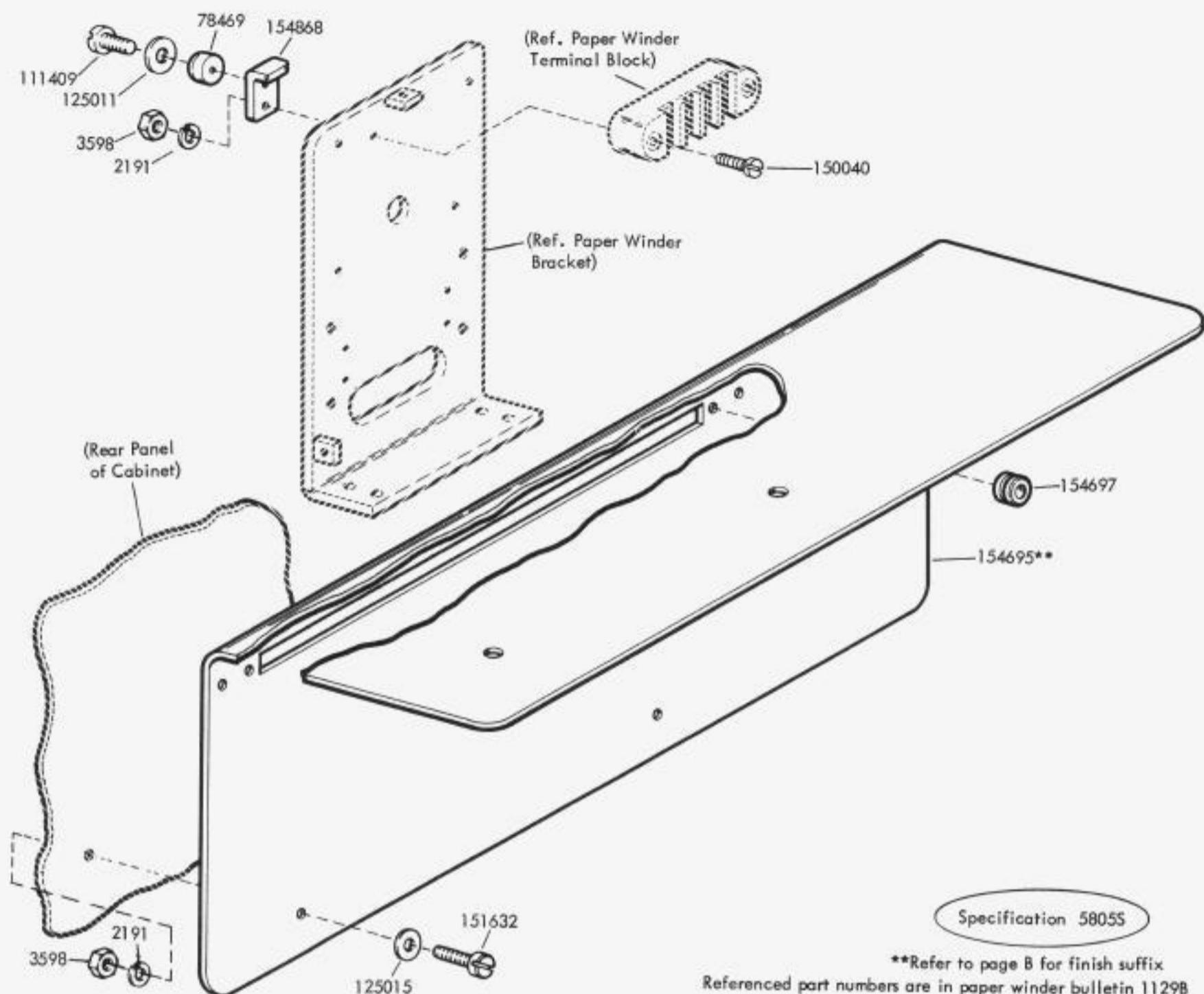


FIGURE 5-32. 153901** MODIFICATION KIT TO PROVIDE A SHELF FOR MOUNTING A PAPER WINDER TO CABINET

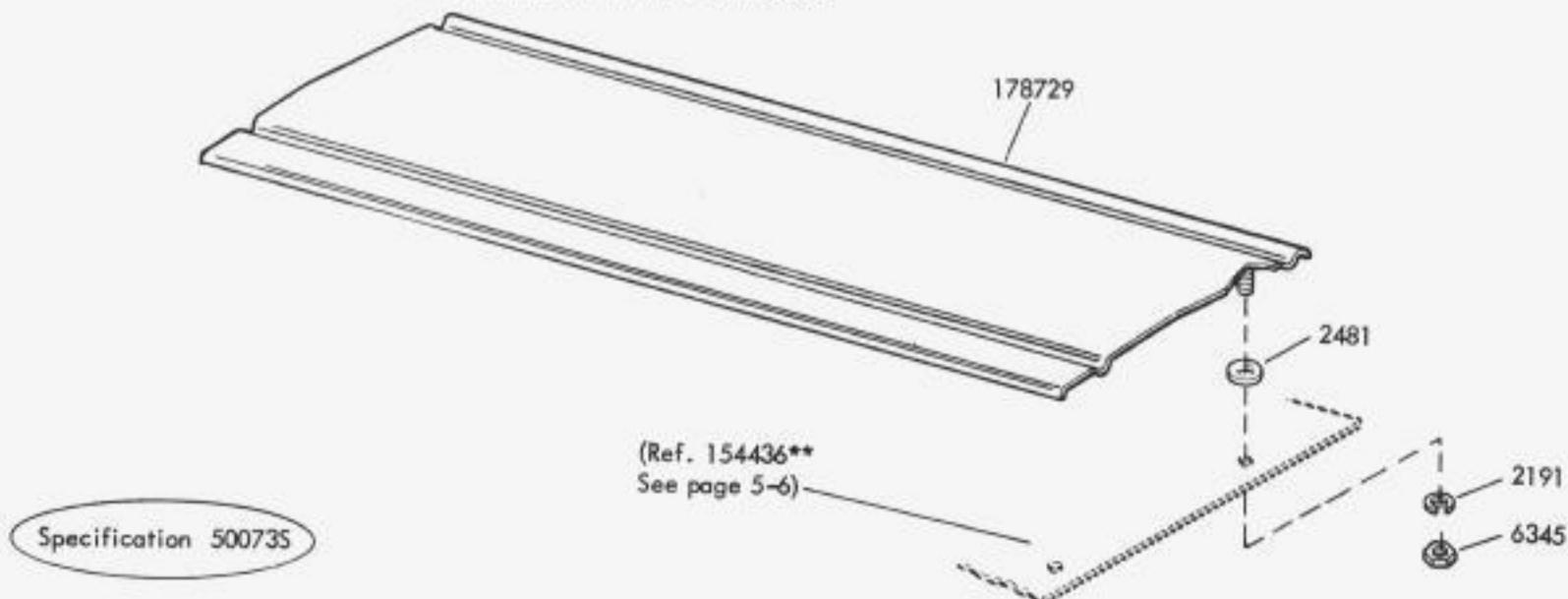
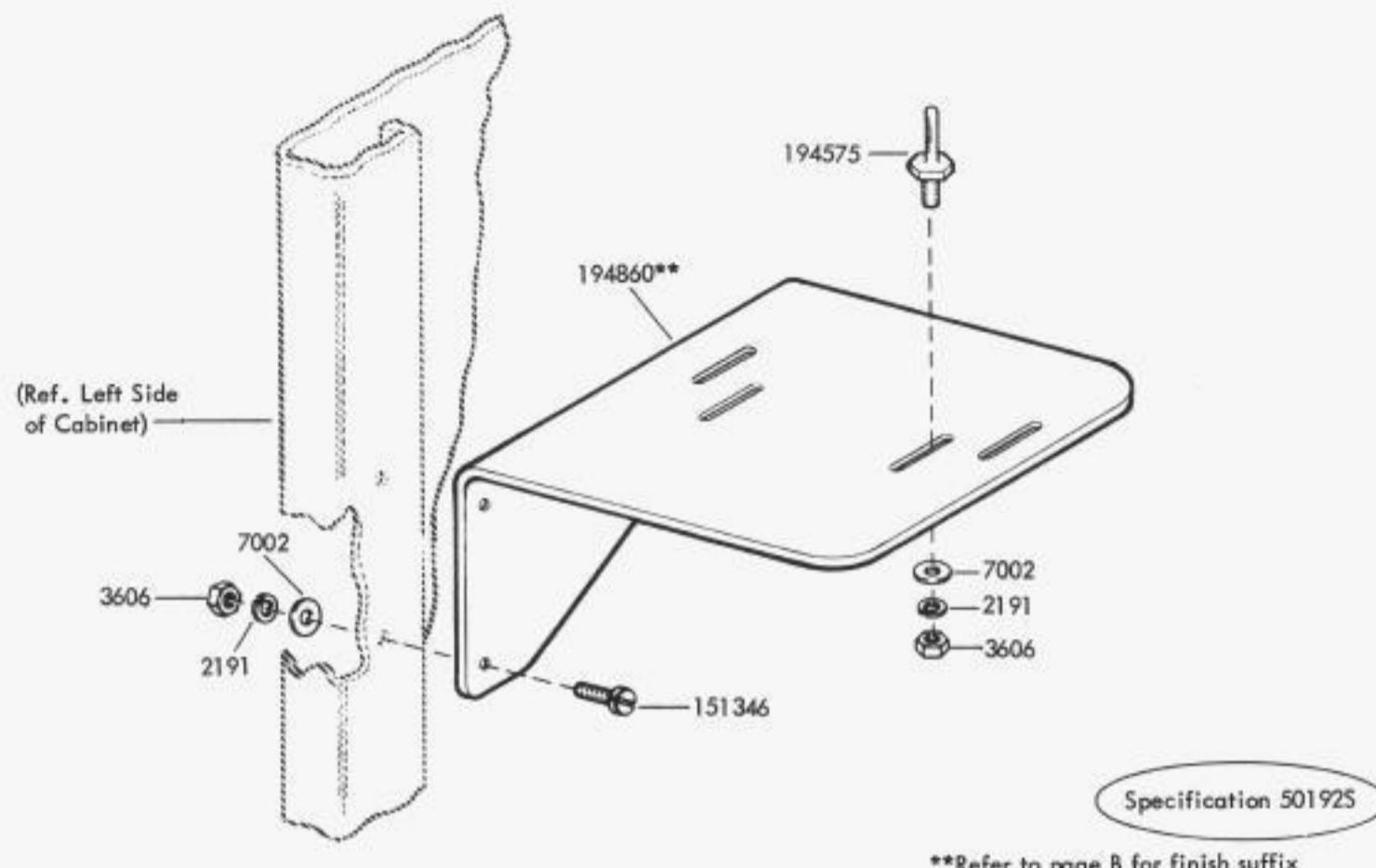
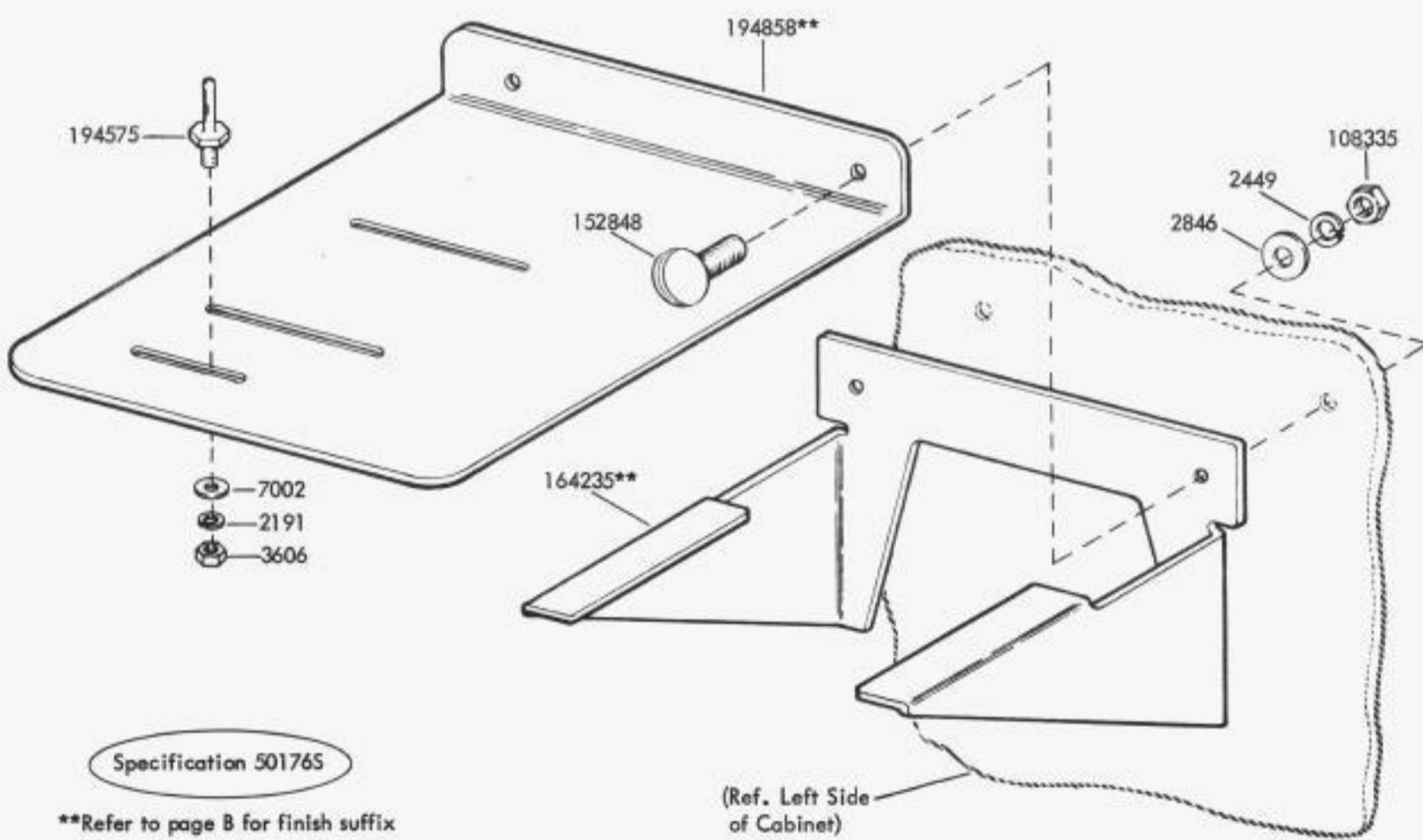


FIGURE 5-33. 174458** MODIFICATION KIT TO PROVIDE CABINET WITH A PAPER TEARING PLATE



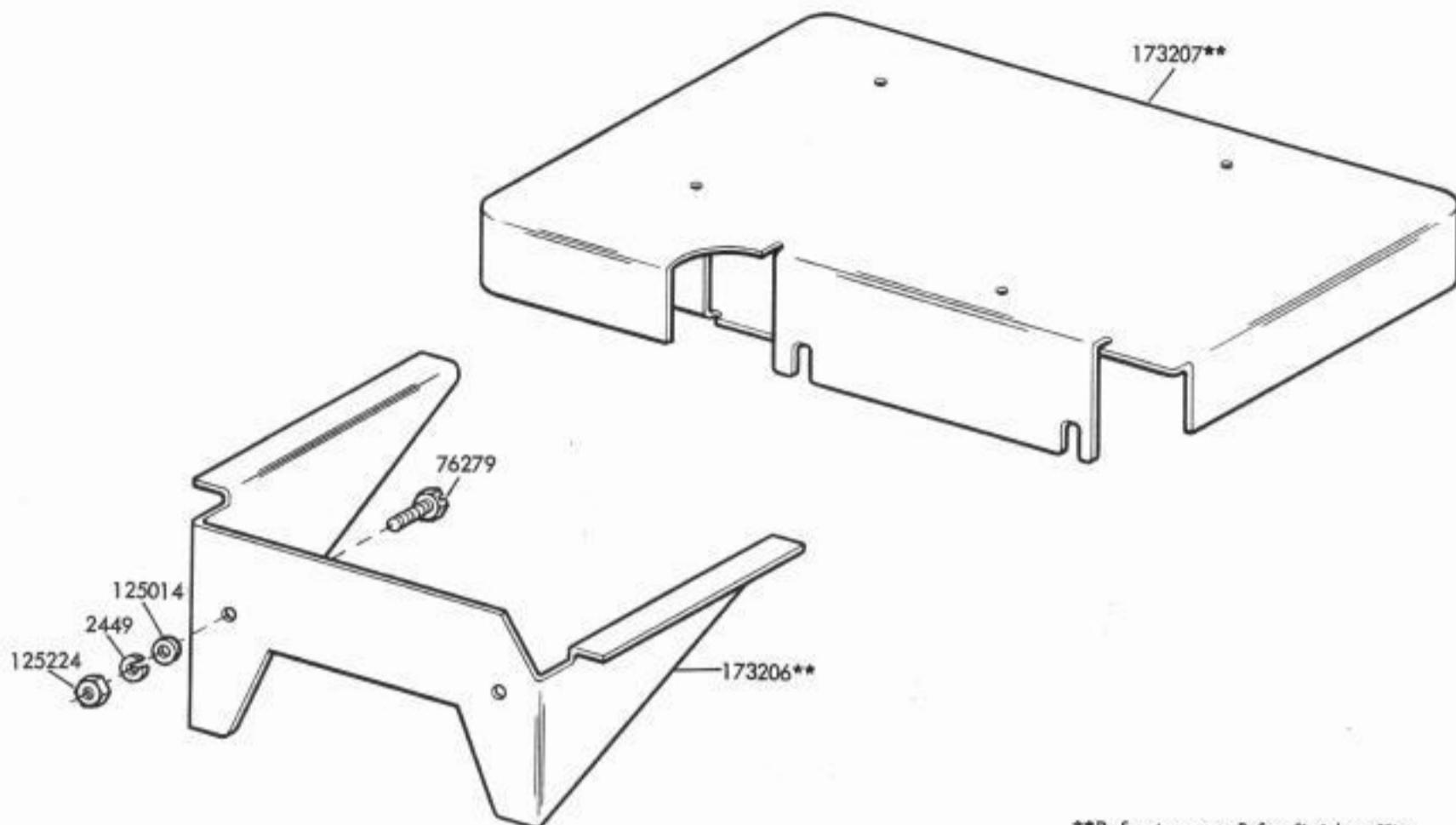
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FIGURE 5-34. 194859** MODIFICATION KIT TO PROVIDE SHELF FOR TAPE WINDER OR TAPE UNWINDER



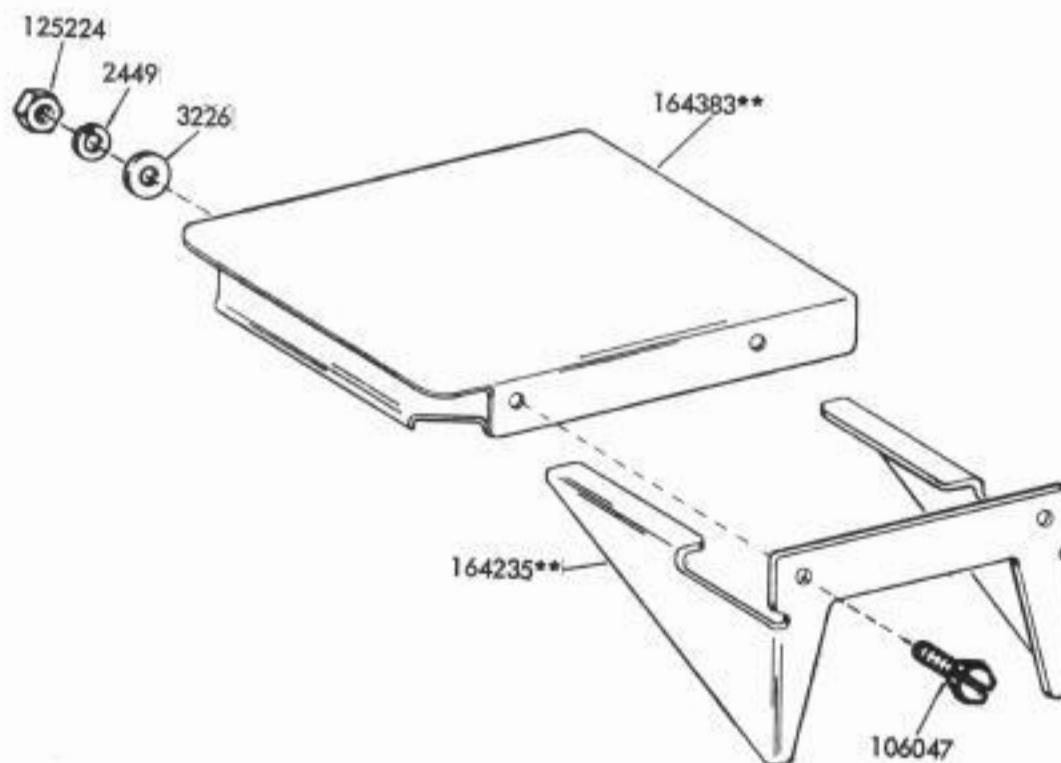
**Refer to page B for finish suffix

FIGURE 5-35. 194857** MODIFICATION KIT TO PROVIDE SHELF FOR SINGLE REEL TAPE WINDER



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FIGURE 5-36. 173097** MODIFICATION KIT TO PROVIDE A MOUNTING SHELF FOR LEFT SIDE OF CABINET



**Refer to page B for finish suffix

FIGURE 5-37. 163796** MODIFICATION KIT TO PROVIDE A TELEPHONE MOUNTING SHELF FOR CABINET

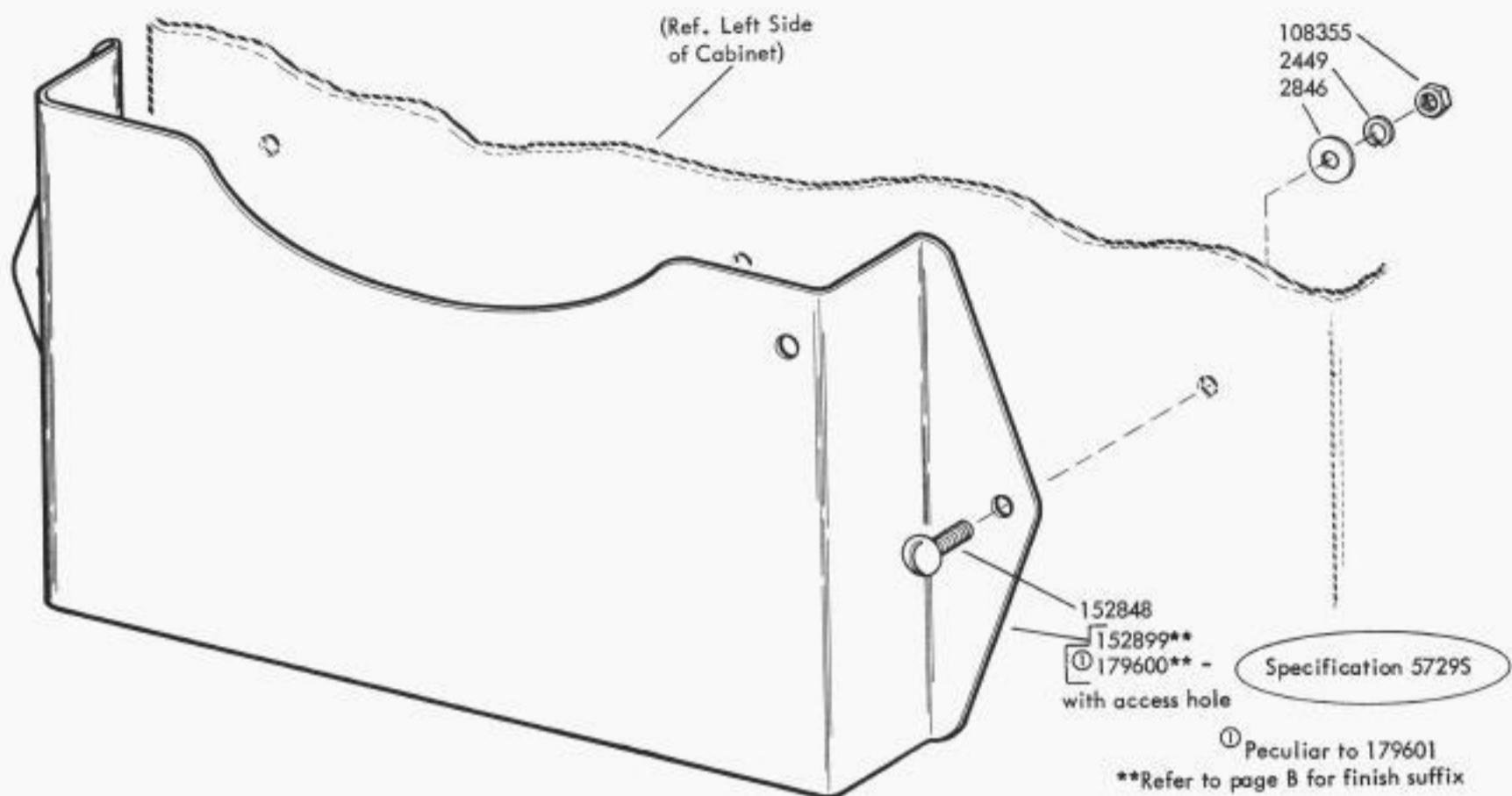


FIGURE 5-38. 152910** AND 179601** MODIFICATION KIT TO ADD DIRECTORY HOLDER OR MESSAGE FILE HOLDER

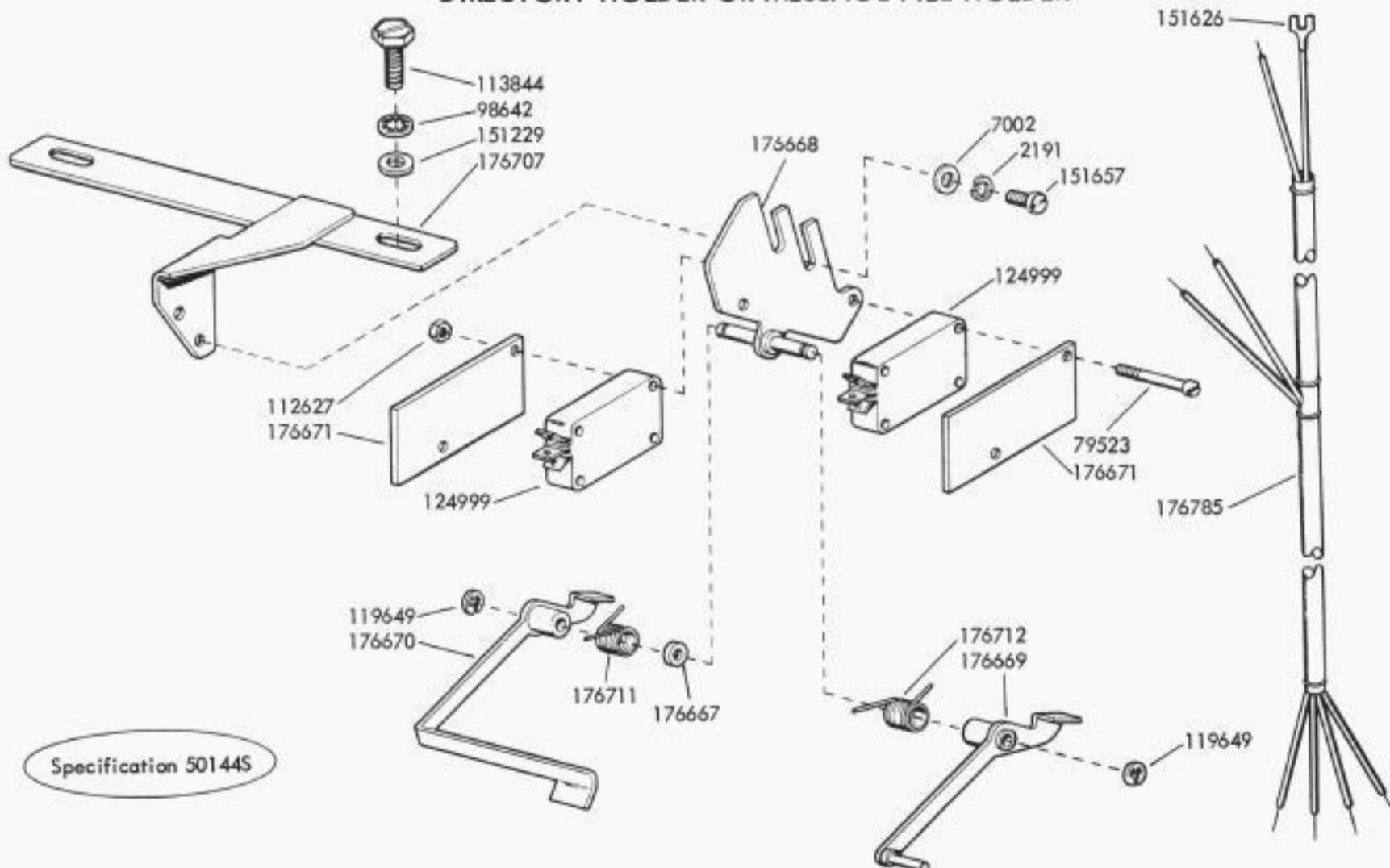


FIGURE 5-39. 176713 MODIFICATION KIT TO PROVIDE LOW PAPER AND PAPER-OUT ALARM

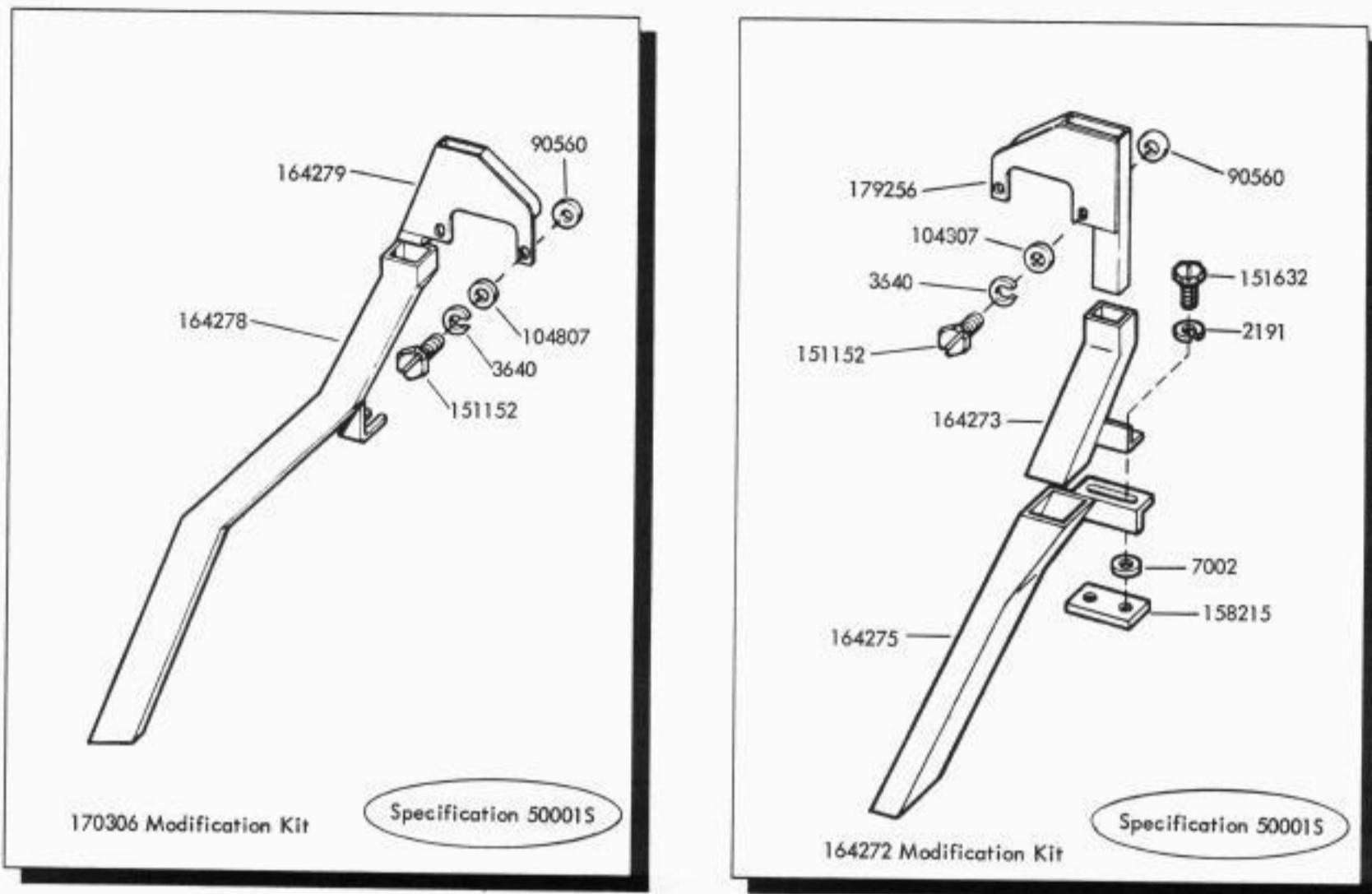


FIGURE 5-40. 164272 (FOR AUXILIARY REPERFORATOR) AND 170306 (FOR KEYBOARD REPERFORATOR) MODIFICATION KITS TO PROVIDE CHAD DISPOSAL

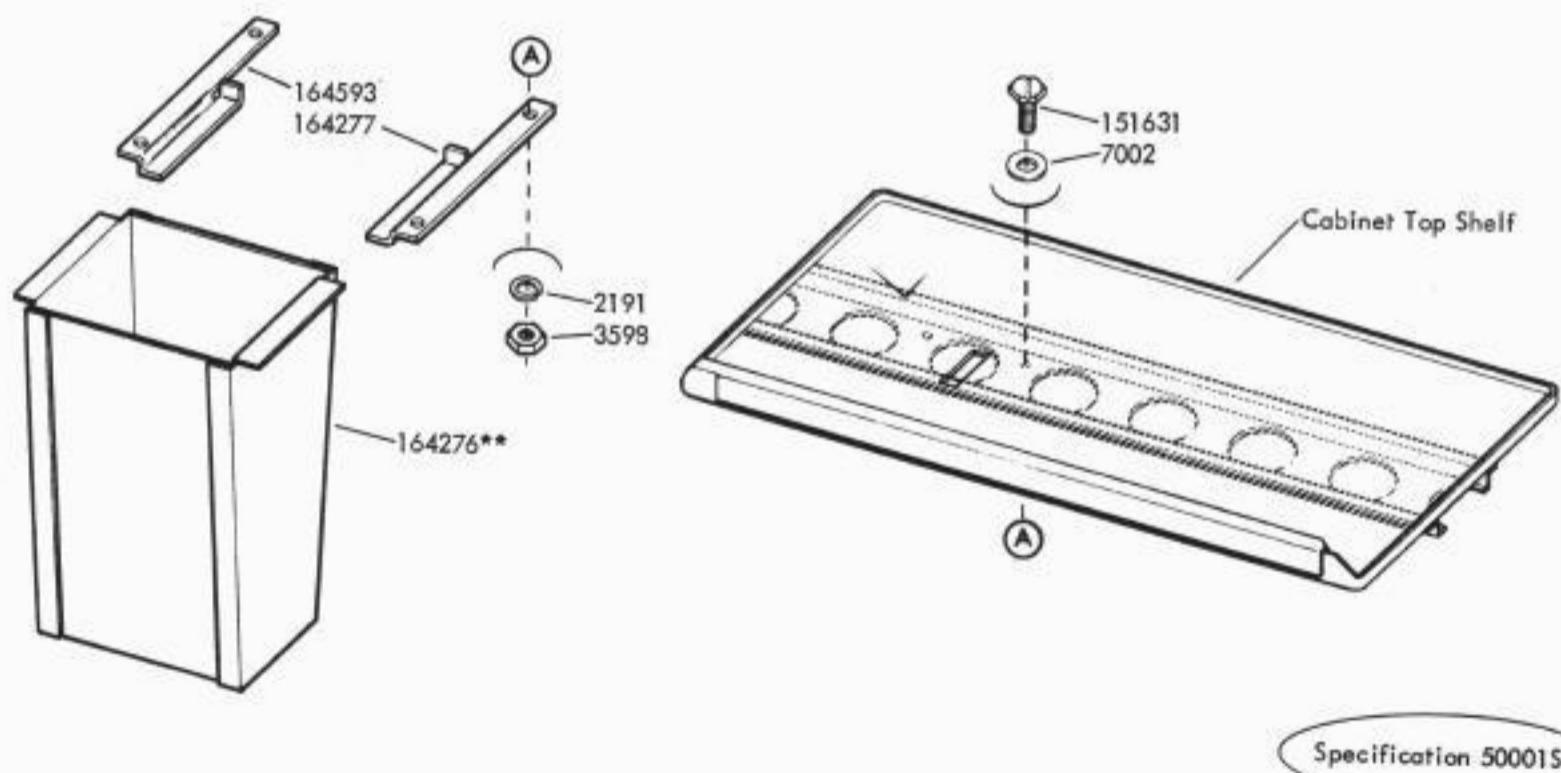
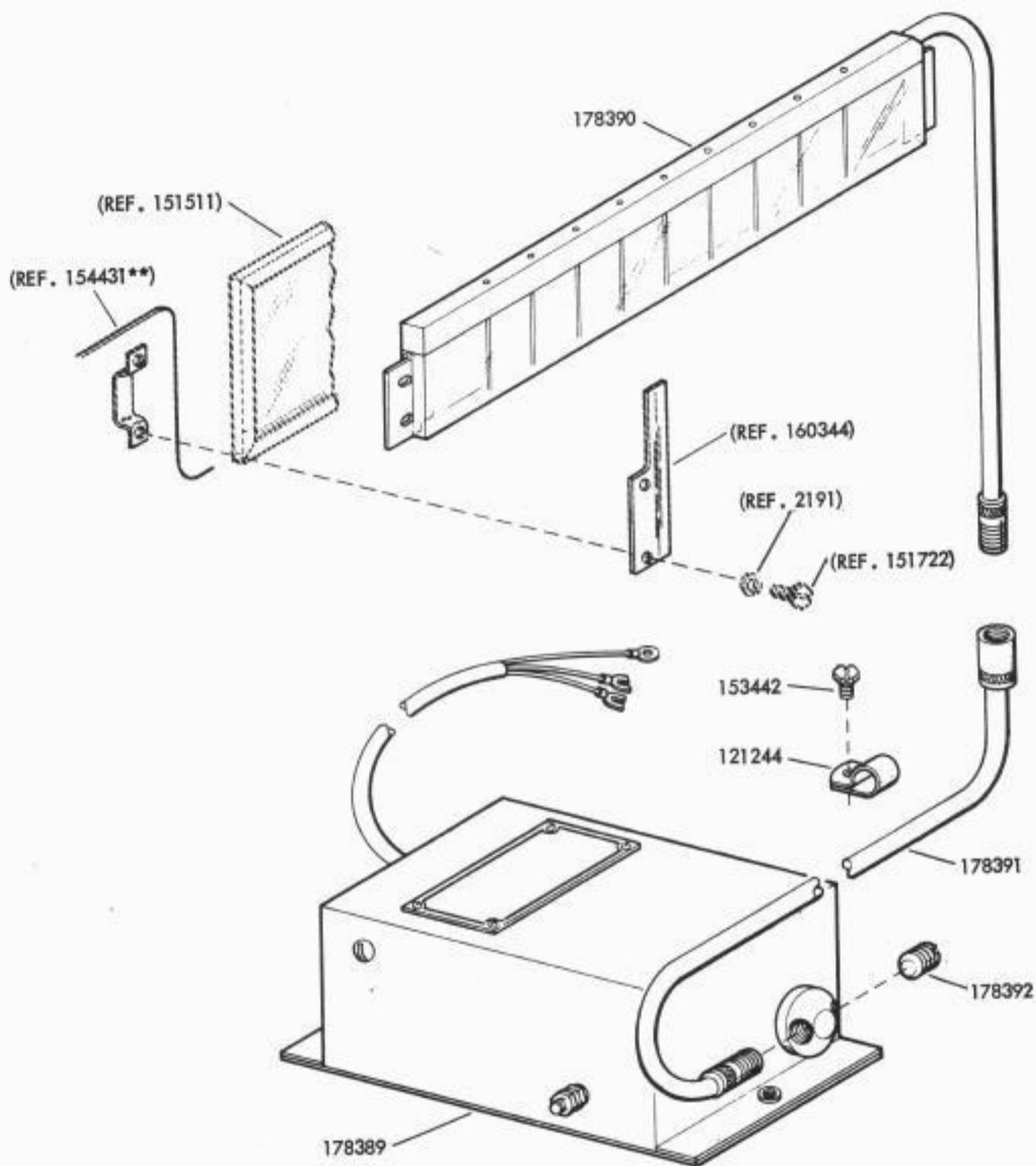


FIGURE 5-41. 164405** MODIFICATION KIT TO PROVIDE CHAD CONTAINER FOR THE AUXILIARY REPERFORATOR AND/OR KEYBOARD REPERFORATOR



NOTE:
For referenced part numbers
see page 5-6.

**FIGURE 5-42. 178387 MODIFICATION KIT TO PROVIDE HIGH VOLTAGE STATIC ELIMINATOR
TO NEUTRALIZE ELECTROSTATIC CHARGE ON PAGE COPY**

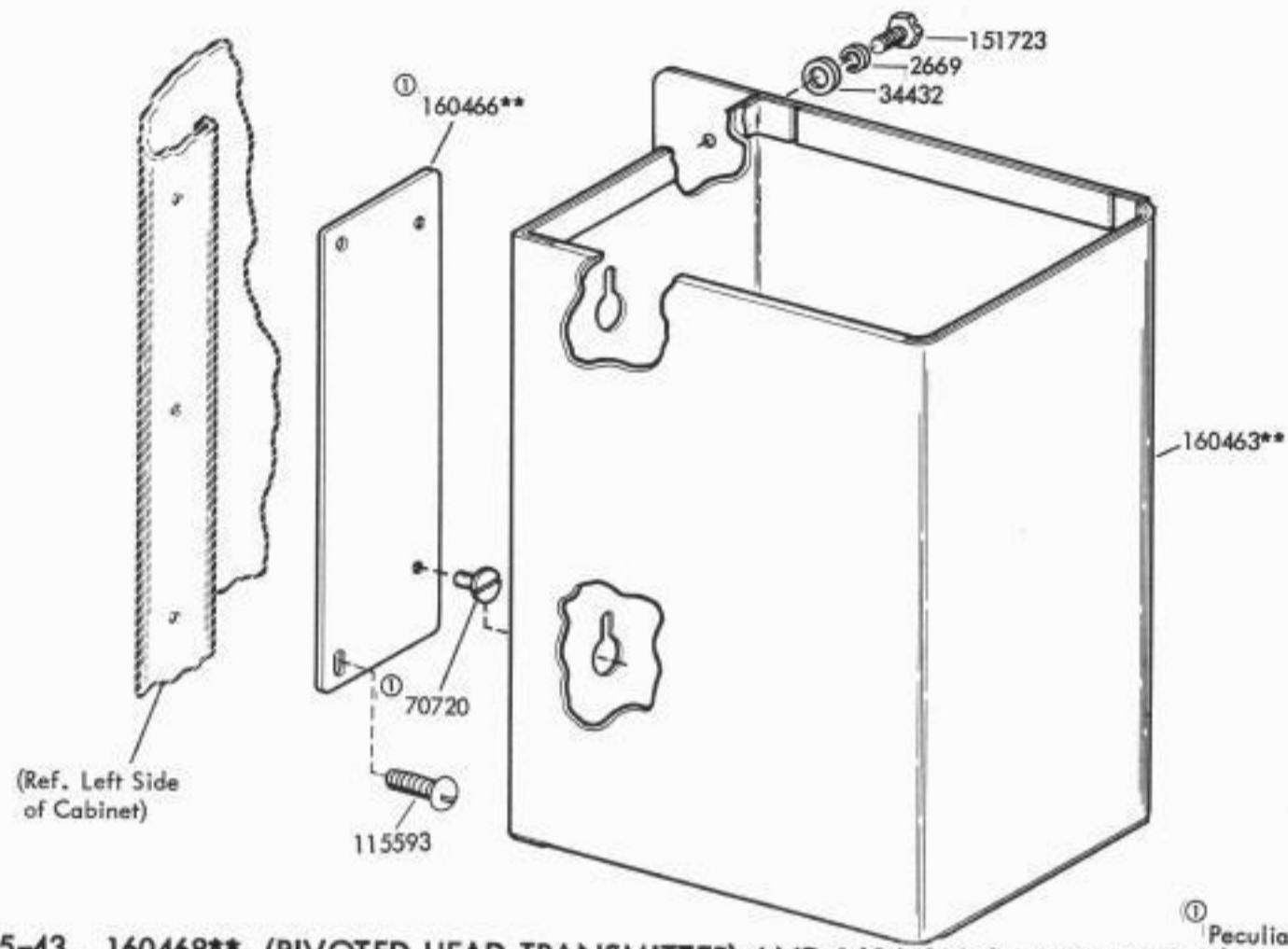


FIGURE 5-43. 160468** (PIVOTED HEAD TRANSMITTER) AND 160470** (FIXED HEAD TRANSMITTER)
MODIFICATION KITS TO PROVIDE TAPE BASKET

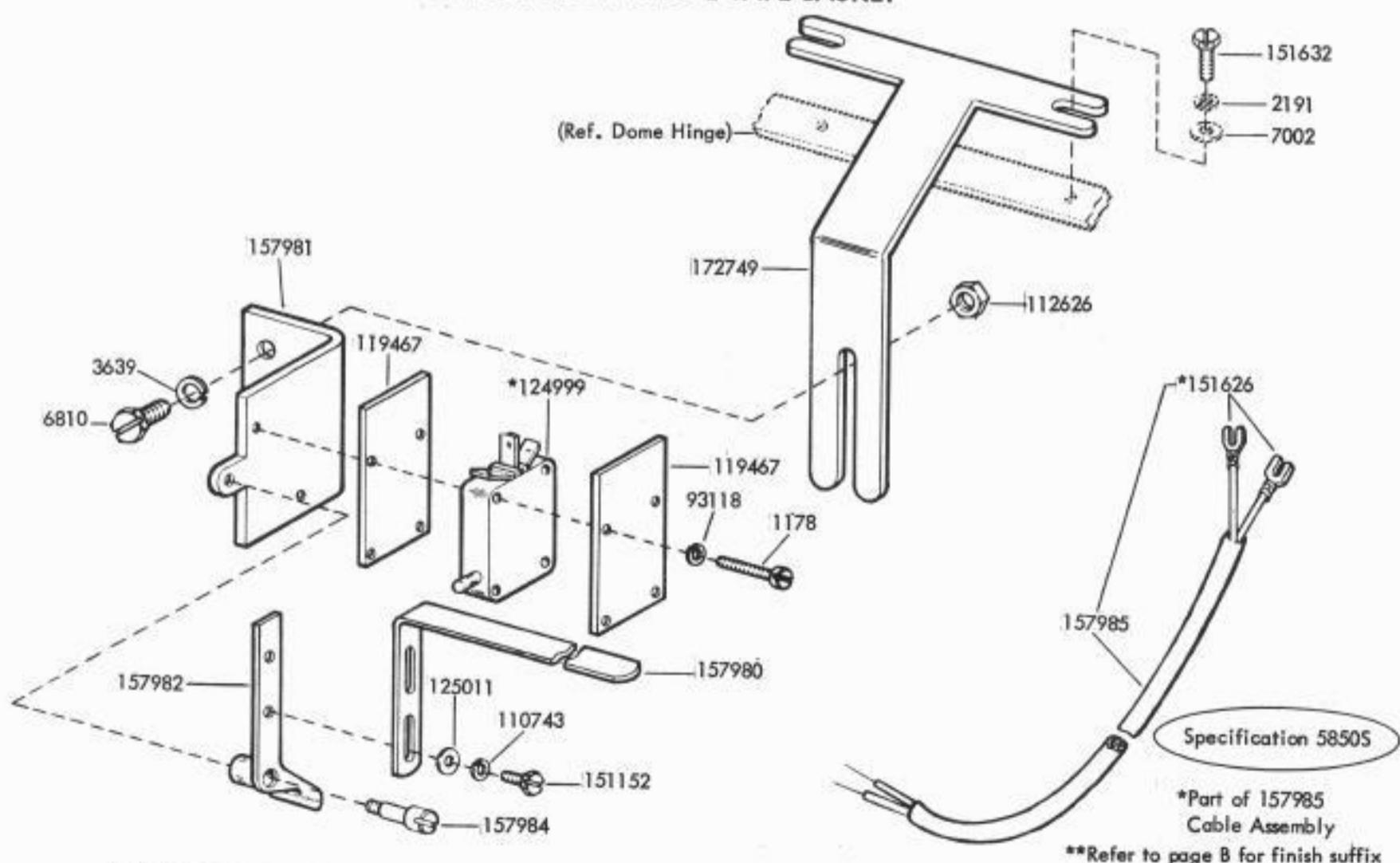


FIGURE 5-44. 154756 MODIFICATION KIT TO PROVIDE FORM-OUT ALARM

1169B

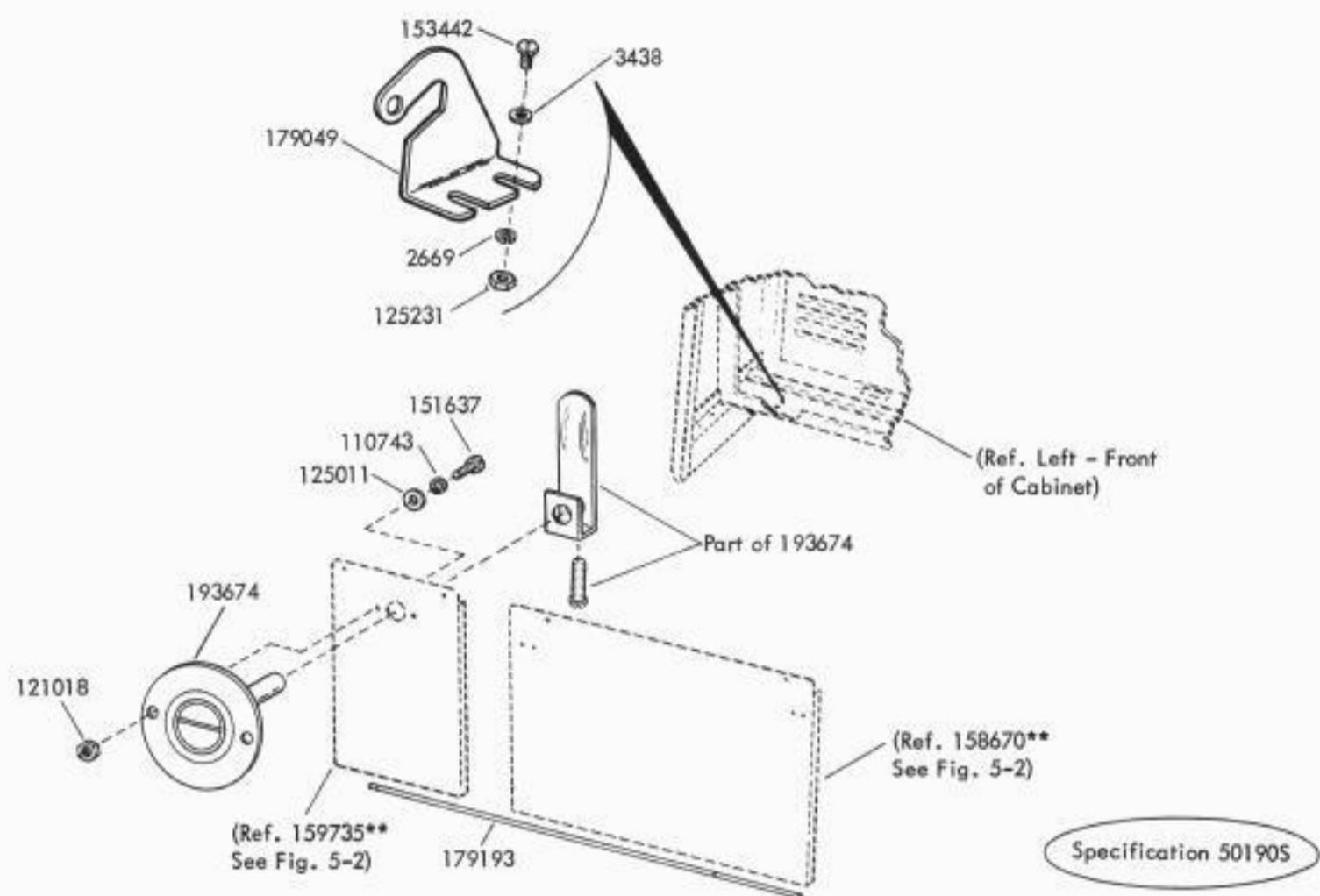
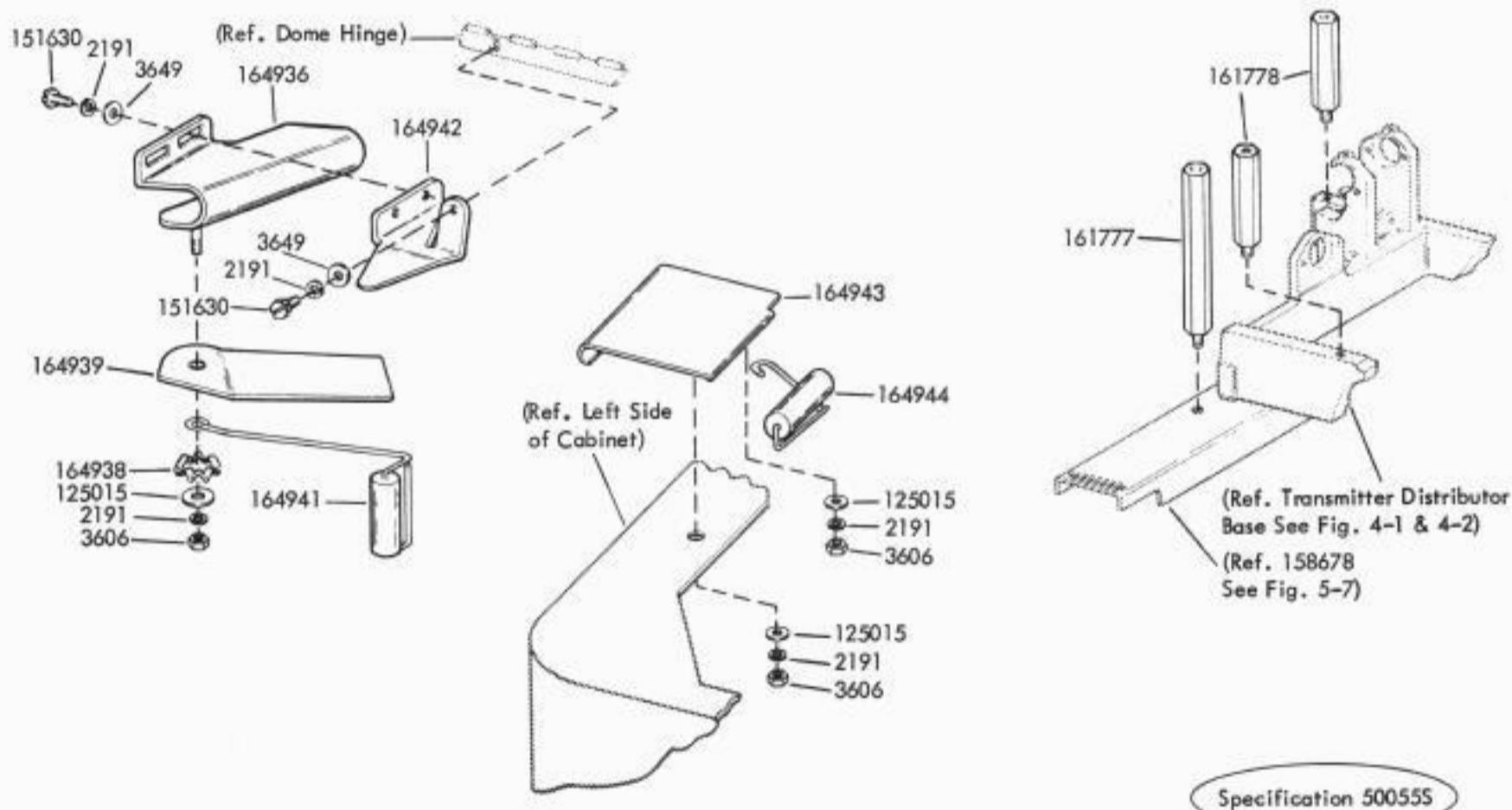


FIGURE 5-45. 193675 MODIFICATION KIT TO PROVIDE CABINET WITH TWO HINGED PANELS IN LOWER CAVITY



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FIGURE 5-46. 161814 MODIFICATION KIT TO MOUNT AN AUXILIARY TYPING REPERFORATOR BASE AND PROVIDE TAPE GUIDE

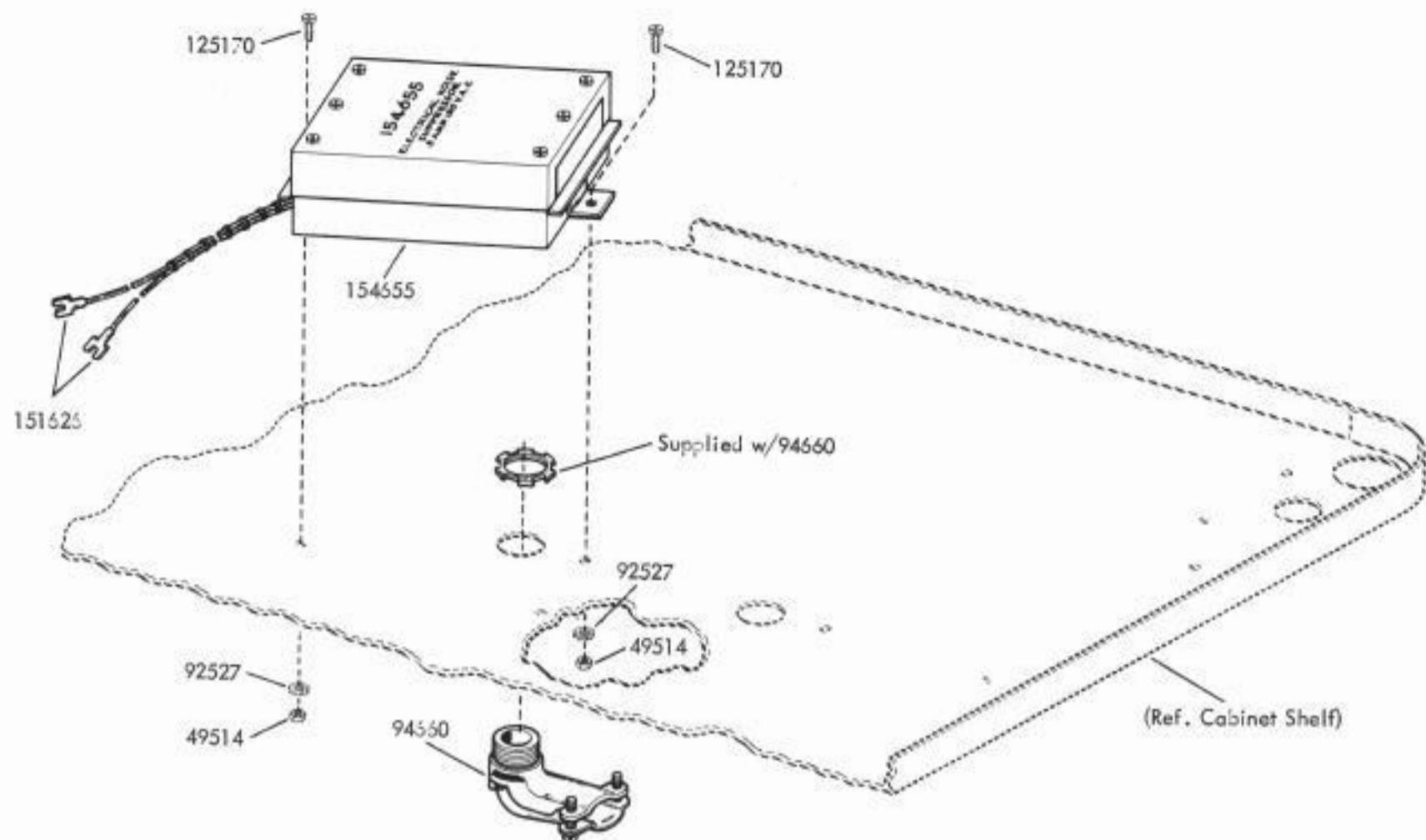


FIGURE 5-47. 154651 MODIFICATION KIT TO ADD SIGNAL LINE ELECTRICAL NOISE SUPPRESSOR (D.C.)

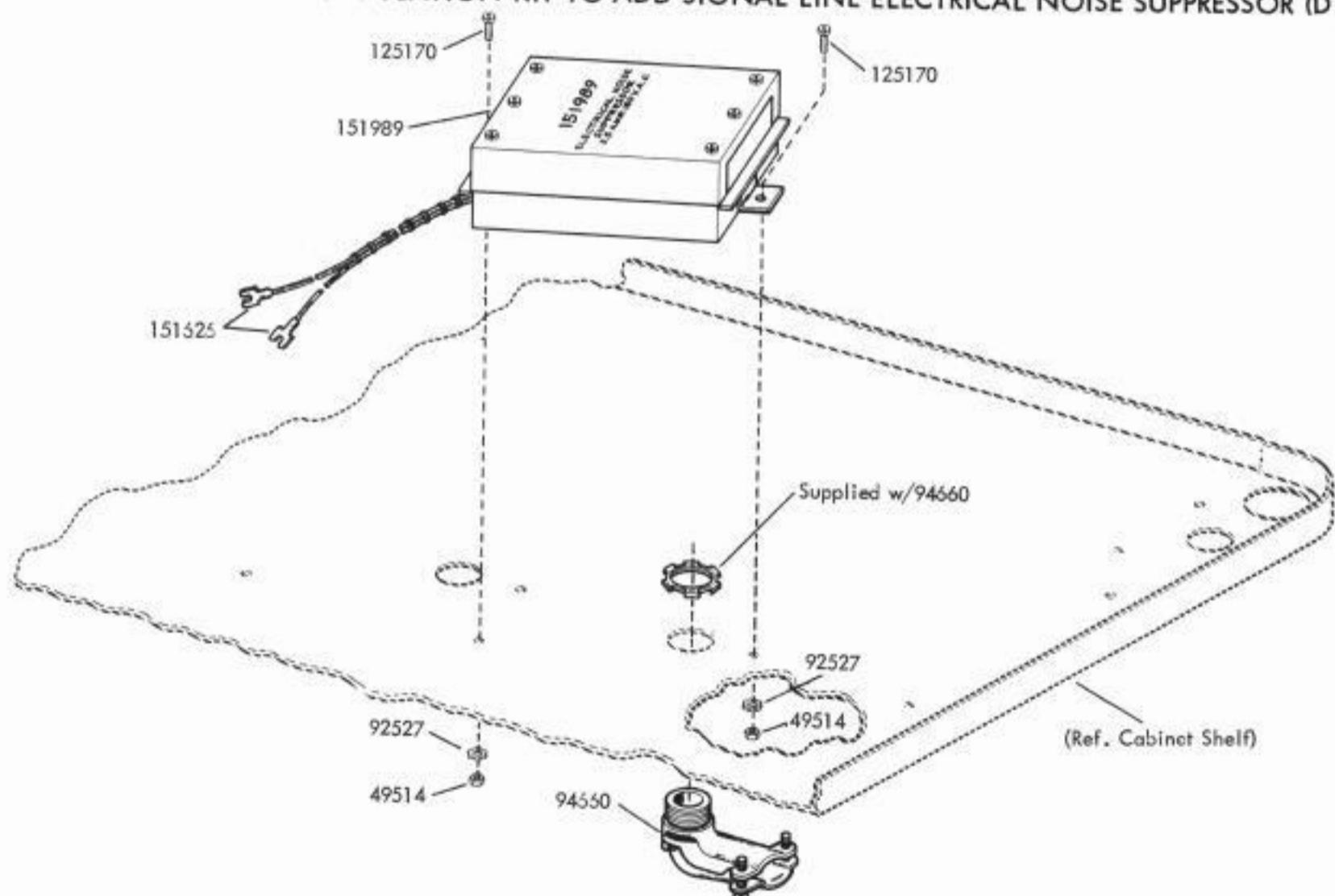
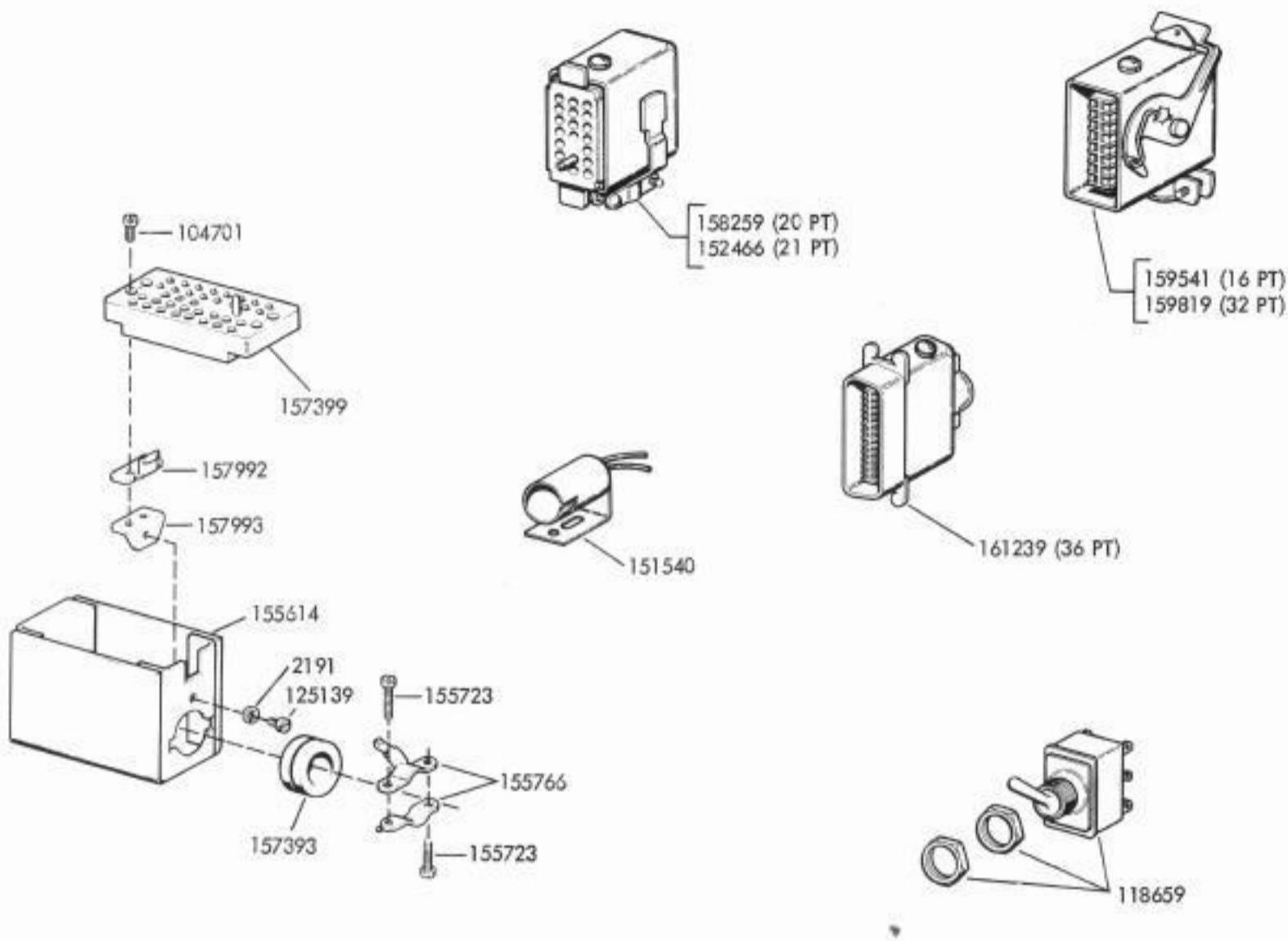


FIGURE 5-48. 151988 MODIFICATION KIT TO ADD POWER LINE ELECTRICAL NOISE SUPPRESSOR

CABLE ASSEMBLIES												
LAAC200**	X	X	X	X	X	X	X	X	X	X	X	Wiring Diagram
LAAC201**	X	X	X	X	X	X	X	X	X	X	X	3264WD
LAAC202**	X	X	X	X	X	X	X	X	X	X	X	3264WD
LAAC205**	X	X	X	X	X	X	X	X	X	X	X	3264WD
LAAC206**	X			X	X							3455WD
LAAC207**	X	X	X									3491WD
LAAC209**	X	X	X									3264WD
LAAC210**	X	X	X									3264WD
LAAC213**	X	X	X									3264WD
LAAC214**	X	X	X									3264WD
LAAC219**	X	X	X									3264WD
LAAC222**	X	X	X			X						3771WD
LAAC223**	X	X	X			X						3771WD
LAAC225**	X	X	X									3264WD
LAAC226**	X					X	X	X	X	X	X	3803WD
LAAC229**	X						X	X	X	X	X	3801WD
LAAC230**	Not Wired											—
LAAC231**												4322WD
LAAC233**	X	X										4337WD
LAAC234**	X	X	X									3264WD
LAAC235**	X	X	X									3264WD
LAAC236**	X	X	X									3264WD
LAAC237**	X	X	X									3264WD
LAAC241**												4750WD

FIGURE 5-49. CABINET CABLE ASSEMBLIES



CABLE CLAMPS	
Number	I.D.
121242	1/3"
121243	3/16"
121244	1/4"
121245	5/16"
121246	3/8"
121247	7/16"
121248	1/2"
121249	5/8"
121250	3/4"
121251	1"

INSULATING SLEEVES		
Number	I.D.	Length
155750	3/32"	1/2"
155751	1/8"	1"
155752	5/64"	1/2"
155753	1/8"	1/2"
155754	1/16"	1/2"
155755	11/64"	5/8"

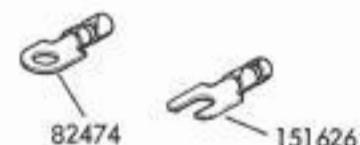


FIGURE 5-50. CABLE COMPONENTS

MODIFICATION KITS

Kit Number	Part Number	Description	Quantity	Figure Number	Specification Number
145898**		Modification Kit to Provide Tape Bin for Stored Tape of a Message in Transmission		5-29	
151988		Modification Kit to Add Power Line Electrical Noise Suppressor		5-48	
152910**		Modification Kit to Add Directory or Message File Holder		5-38	57295
154651		Modification Kit to Add Signal Line Electrical Noise Suppressor (D.C.)		5-47	
154756		Modification Kit to Provide Form-Out Alarm		5-44	58505
159384		Modification Kit to Provide Terminal Blocks		5-14	
159393		Modification Kit to Add Auxiliary Terminal Block - Right Side		5-15	
159394		Modification Kit to Add Auxiliary Terminal Block - Left Side		5-16	
159396		Modification Kit to Add Auxiliary Terminal Block - Top Row Left Rear		5-13	
160887**		Modification Kit to Provide a Housing for an LX or LXD Type Transmitter Distributor in a General Purpose Cabinet.			58855
	2191	Washer, Lock	10	5-17	
	3598	Nut (6-40 Hex)	6	5-17	
	7002	Washer, Flat	10	5-17	
	82730	Screw, Shoulder (10-32)	1	5-17	
	151631	Screw (6-40 x 5/16 Hex)	2		
	151693	Screw (6-40 x 9/16 Fl)	2	5-17	
	154485**	Housing w/Studs	1	5-17	
	154486	Spring	2	5-17	
	154487**	Plate w/Studs	1	5-17	
	154490**	Bar, Cross	1	5-17	
	154492	Plate, Nut	1	5-17	
	160291	Plate, Tape Exit	1	5-17	
160888**		Modification Kit to Provide a Housing for an LBXD Type Transmitter Distributor in a General Purpose Cabinet			58855
	2191	Washer, Lock	10	5-17	
	3598	Nut (6-40 Hex)	6	5-17	
	7002	Washer, Flat	10	5-17	
	82730	Screw, Shoulder (10-32)	1	5-17	

MODIFICATION KITS (Continued)

Kit Number	Part Number	Description	Quantity	Figure Number	Specification Number
160888**		Modification Kit to Provide a Housing for an LBXD Type Transmitter Distributor in a General Purpose Cabinet (Continued)			
	151631	Screw (6-40 x 5/16 Hex)	2	5-17	
	151693	Screw (6-40 x 9/16 Fl)	2	5-17	
	151827	Strap, Terminal	9	5-17	
	154486	Spring	1	5-17	
	154492	Plate, Nut	1	5-17	
	159394	Modification Kit (Auxiliary Terminal Blocks)	1	5-16	
	160286**	Bar, Cross	1	5-17	
	160290**	Plate w/Studs	1	5-17	
	160291	Plate, Tape Exit	1	5-17	
	160293**	Cover w/Studs	1	5-17	
	160372	Cable Assembly	1		
	160976	Spring	1	5-17	
160889**		Modification Kit to Provide a Housing for an LCXD Type Transmitter Distributor in a Special Purpose Cabinet			58855
	1253	Screw (8-32 x 3/8 Rd)	2	5-17	
	2191	Washer, Lock	15	5-17	
	3598	Nut (6-40 Hex)	3	5-17	
	6344	Screw (6-32 x 11/32 Hex)	2	5-3	
	7002	Washer, Flat	13	5-17	
	82730	Screw, Shoulder (10-32)	1	5-17	
	111017	Screw (6-40 x 5/16 Fl)	4	5-17	
	115594	Nut, Speed	2	5-17	
	151631	Screw (6-40 x 5/16 Hex)	2	5-17	
	151657	Screw (6-40 x 1/4 Hex)	2	5-2	
	151693	Screw (6-40 x 9/16 Fl)	2	5-17	
	154492	Plate, Nut	1	5-17	
	158645**	Bar, Cross	1	5-17	
	158646**	Bracket	1	5-17	
	158648	Chute, Tape	1	5-17	
	158683**	Bracket, Housing	1	5-2	
	158684**	Cover, Auxiliary	1	5-17	
	158685**	Housing, Auxiliary	1	5-17	
	158686**	Plate w/Studs	1	5-17	
	158697	Plate, Designation	1	5-3	
160890**		Modification Kit to Provide a Housing for an LAXD Type Transmitter Distributor in a Special Purpose Cabinet			58855
	1253	Screw (8-32 x 3/8 Rd)	2	5-17	
	2191	Washer, Lock	6	5-17	
	6344	Screw (6-32 x 11/32 Hex)	2	5-3	
	7002	Washer, Flat	4	5-17	
	82730	Screw, Shoulder (10-32)	1	5-17	
	115594	Nut, Speed	2	5-17	
	151631	Screw (6-40 x 5/16 Hex)	2	5-17	
	151657	Screw (6-40 x 1/4 Fl)	2	5-2	
	154492	Plate, Nut	1	5-17	
	158646**	Bracket	1	5-17	
	158648	Chute, Tape	1	5-2	
	158693**	Bar, Cross	1	5-17	
	158697	Plate, Designation	1	5-3	

MODIFICATION KITS (Continued)

Kit Number	Part Number	Description	Quantity	Figure Number	Specification Number
161814		Modification Kit to Mount an Auxiliary Typing Reperforator Base and Provide Tape Guide		5-46	500555
162234**		Modification Kit to Add Tape Storage and Tape Winding Facilities to a General Purpose Cabinet (LAAC209** or LAAC236**)			
	1253	Screw (8-32 x 3/8 Rd)	9	5-8	
	2191	Washer, Lock	14	5-3	
	2669	Washer, Lock	4	5-3	
	3598	Nut (6-40 Hex)	6	5-3	
	3639	Washer, Lock	10		
	7002	Washer, Flat	14	5-3	
	8333	Screw (10-32 x 3/8 Rd)	4		
	84579	Washer, Flat	4		
	103387	Catch	1	5-3	
	111017	Screw (6-40 x 5/16 Rd)	6	5-3	
	112626	Nut (10-32 Hex)	12	5-3	
	115593	Screw (10-32 x 1/4 Self-Tapping)	9	5-3	
	115594	Nut, Speed	5	5-8	
	116783	Holder, Fuse	1	5-0	
	117535	Washer, Flat	11	5-3	
	120557	Washer, Flat	8	5-3	
	121005	Screw (6-40 x 1/4 Self-Tapping)	2		
	121243	Clamp, Cable	4	5-3	
	123969	Holder, Cable	1	5-3	
	125014	Washer, Flat	4		
	139158	Connector, Receptacle (Duplex)	1	5-8	
	151572	Washer, Star	1		
	151657	Screw (6-40 x 1/4 Fl)	7	5-3	
	157215	Mount, Rubber	4	5-3	
	158637	Screw, Thumb (10-32)	1		
	158652	Nut, Speed	2		
	158660**	Door Assembly, Tape Winder	1	5-3	
	158663	Stud	1	5-3	
	158664	Bracket	1	5-3	
	158665**	Partition	1	5-3	
	158666**	Box, Outlet	1	5-8	
	158667	Tray, Tape Winder	1	5-3	
	158669	Stud	1	5-3	
	158671	Connector, Receptacle (3 Pt)	1	5-8	
	159329	Cable Assembly	1	5-8	
	162243**	Bin Assembly, Tape	1		
162235**		Modification Kit to Provide a Housing for an LBXD Type Transmitter Distributor in a General Purpose Cabinet (LAAC209** or LAAC236**) Equipped with Tape Winding Facilities			58855
	2191	Washer, Lock	13	5-17	
	3598	Nut (6-40 Hex)	9	5-17	
	7002	Washer, Flat	12	5-17	
	82730	Screw, Shoulder (10-32)	1	5-17	
	98237	Pin	1	5-17	
	151631	Screw (6-40 x 5/16 Hex)	2		
	151693	Screw (6-40 x 9/16 Fl)	2	5-17	

MODIFICATION KITS (Continued)

Kit Number	Part Number	Description	Quantity	Figure Number	Specification Number
162235**		Modification Kit to Provide a Housing for an LBXD Type Transmitter Distributor in a General Purpose Cabinet (LAAC209** or LAAC236**) Equipped with Tape Winding Facilities (Continued)			
	151827	Strap, Terminal	9	5-12	
	154457	Guide, Tape	1	2-10	
	154486	Spring, Detent	1	5-17	
	154492	Plate, Nut	1	5-17	
	159394	Modification Kit (Auxiliary Terminal Block)	1	5-16	
	160286**	Bar, Cross	1	5-17	
	160290**	Plate w/Studs	1	5-17	
	160372	Cable Assembly	1	5-17	
	160976	Spring	1	5-17	
	162237	Chute, Tape	1		
	179493	Guide, Tape	1		
162244**		Modification Kit to Convert General Purpose Cabinets (LAAC209** or LAAC236**) to Tape Winding and Tape Storage Facilities			59025
	162234**	Modification Kit	1		
	162235**	Modification Kit	1		
162629		Modification Kit to Add Shaft and Bracket for Power Switch Control			501055
	104807	Washer, Flat	2	5-2	
	110743	Washer, Lock	2	5-2	
	153799	Screw (4-40 x 21/64 Hex)	2	5-2	
	163170	Shaft, Control	1	5-2	
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	7002	Washer, Flat	2	5-9	
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	102092	Screw (6-40 x 1-17/32 Rd)	1		
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	173256	Cable w/Resistor	1		
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154498	Plate W/Studs, Tape Exit 5-14	158641**	Cover 5-21	160297	Insulator (181-220) 5-12
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154655	Suppressor, Electrical Noise 5-33	158643	Blade 5-21	160339	Window 5-6
154695**	Bracket 5-25	158644	Cable Assembly 5-21	160341**	Hinge - Left 5-6
154697	Grommet, Rubber 5-25	158645**	Bar, Cross 5-14,5-37	160344	Clamp 5-6
154756	Modification Kit 5-31,5-36	158646**	Bracket, Mounting 5-14,5-37	160345	Plate 5-15
154868	Plate 5-25	158647	Chute, Tape 5-3	160346	Bracket 5-15
154869**	Bracket 5-23	158648	Chute, Tape 5-3,5-37	160347	Stud (6-32 Hex) 5-4
155023	Switch, Toggle 5-18,5-19	158649	Screw, Thumb (4-40) 5-6	160349**	Hinge, Right 5-6
155045	Switch, Toggle 5-9	158651**	Door W/Studs 5-6	160352	Cable Assembly 5-16,5-34
155083	Lens (Red) 5-6,5-7	158652	Nut, Speed 5-3,5-7,5-38	160355	Modification Kit 5-16
155085**	Bracket 5-23	158653	Spacer 5-15	160369	Switch, Push 5-16,5-18,5-19
155086	Pad, Rubber 5-23	158655	Window 5-6	160370	Switch, Push 5-16,5-18
155087	Screw (1/4-20 x 7/16 Rd) 5-23	158657	Clamp 5-6	160371	Light, Pilot (Yellow) 5-16
155597	Lens, Indicator Light (Yellow) 5-6	158658	Gasket 5-6	160372	Cable Assembly 5-37,5-39
155614	Cover 5-35	158659	Plate, Blank 5-6	160381	Panel, Control 5-16,5-17
155723	Screw (4-48 x 1/2 Fl) 5-35	158660**	Door Assembly, Tape Winder 5-38	160382	Cover 5-16
155750	Sleeve, Insulating (3/32 ID x 1/2 Lg) 5-16,5-35	158661**	Door, Tape Winder 5-4	160383	Switch 5-16
155751	Sleeve, Insulating (1/8 ID x 1 Lg) 5-35	158662	Window 5-4	160386	Resistor (1,000 Ohm) 5-16
155752	Sleeve, Insulating (5/64 ID x 1/2 Lg) 5-35	158663	Stud 5-4,5-21,5-38	160390	Bracket 5-16
155753	Sleeve, Insulating (1/8 ID x 1/2 Lg) 5-16,5-35	158664	Bracket 5-4,5-38	160461	Bracket 5-13
155754	Sleeve, Insulating (1/16 ID x 1/2 Lg) 5-35	158665**	Partition 5-4,5-38	160462	Insulator (41-80) 5-13
155755	Sleeve, Insulating (11/64 ID x 5/8 Lg) 5-9,5-16,5-20,5-35	158666**	Box, Outlet 5-9,5-38	160466	Plate 5-31
155766	Clamp, Cable 5-35	158667	Tray, Tape Winder 5-4,5-38	160467	Window 5-6
155861	Washer, Lock 5-22	158669	Stud (10-32) 5-4,5-38	160468	Modification Kit 5-31
156740	Screw (6-40 x 7/32 Hex) 5-21	158670**	Panel, Front 5-3	160469	Stop 5-4
156768	Screw (8-32 x 9/32 Hex) 5-21,5-22	158671	Connector, Receptacle (3 Pt) 5-9,5-38	160470	Modification Kit 5-31
156770	Plate, Identification 5-14	158672	Shaft, Front Panel 5-3	160663	Bracket 5-4
156993	Nut, Speed 5-14	158673	Bracket, Locating 5-8	160664	Pin, Roll 5-6,5-7
157155	Cover 5-13	158676	Insulator (81-120) 5-13	160665**	Door, Top Left 5-6
157215	Mount, Vibration 5-4,5-38	158677	Insulator (151-180) 5-12	160667	Bumper, Rubber 5-6
157393	Grommet, Rubber 5-35	158678	Rail, Rear Base 5-8	160670	Bracket 5-6
157399	Connector, Receptacle (35 Pt) 5-35	158679	Rail, Front Base 5-8	160887**	Modification Kit 5-36
157980	Extension 5-31	158682	Plate 5-3	160888**	Modification Kit 5-36
157981	Bracket 5-31	158683**	Bracket, Housing 5-14,5-37	160889**	Modification Kit 5-37
157982	Lever 5-31	158684**	Cover, Auxiliary 5-14,5-37	160890**	Modification Kit 5-37
157984	Screw, Shoulder (4-40) 5-31	158685**	Housing, Auxiliary 5-14,5-37	160974	Arm, Stop 5-6
157985	Switch and Cable Assembly 5-31	158686**	Plate W/Studs 5-14,5-37	160976	Spring, Detent 5-14,5-37,5-39,5-41
157992	Bracket 5-35	158687	Arm, Tape 5-8	160985	Pad (Left) 5-2
157993	Bracket 5-35	158688	Guide, Stop 5-6	160986	Pad (Right) 5-2
158186	Screw (4-40 x 7/32 Fl) 5-20	158689	Guide 5-6	160989	Pad, Dome (Left) 5-6
158195	Rail, Left Base 5-8	158691	Stud (1/4-20) 5-6	160990	Pad, Dome (Right) 5-6
158196	Rail, Right Base 5-8	158692	Spring, Torsion 5-6	160991	Pad, Door Top (Right) 5-6
158197	Angle, Left Base 5-8	158693**	Bar, Cross 5-14,5-37	160993	Pad, Back (Left) 5-2
158198	Angle, Right Base 5-8	158694	Plate, Designation 5-3,5-39	160994	Pad, Top Door (Middle) 5-6
158201	Stud (1/4-32 Hex) 5-8	158695	Plate, Designation 5-4	160995	Pad, Top (Left) 5-6
158215	Plate, Nut (6-40) 5-29	158696	Knob 5-3,5-39	161206	Bushing, Insulating 5-16
158259	Connector, Receptacle (20 Pt) 5-35	158697	Plate, Designation 5-4,5-37	161210	Nut (11/16 x 32 Hex) 5-16
158260	Eccentric 5-8	159238	Connector, Receptacle (2 Pt) 5-18,5-19	161239	Connector, Plug (36 Pt) 5-35
158286	Transformer 5-10	159329	Cable Assembly 5-9,5-34,5-38	161750	Bracket 5-13
158287	Transformer Assembly 5-10	159330	Cable Assembly 5-34	161755	Pad, Front (Right) 5-6
158630**	Bin Assembly, Tape 5-21	159384	Modification Kit 5-12,5-36	161756	Pad, Left Cross Bar 5-14
158631**	Plate, Rear Tape Bin 5-21	159393	Modification Kit 5-13,5-36	161764	Pad 5-14
158634	Bracket 5-21	159394	Modification Kit 5-13,5-36,5-37,5-39	161765	Pad 5-14
158635**	Bin, Tape 5-21	159396	Modification Kit 5-12,5-36	161777	Stud, Mounting (1/4-20) 5-32
		159541	Connector, Plug (16 Pt) 5-35	161778	Stud, Mounting (1/4-32) 5-32
		159734	Button 5-6,5-7	161814	Modification Kit 5-32,5-38
		159735**	Panel, Front 5-3	161825	Panel, Control 5-17
		159743	Bar, Torsion 5-6	161830	Panel, Control 5-17
		159744	Bar, Torsion 5-6,5-7		

NUMERICAL INDEX - SECTION 5 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
162016	Pad, Left Cross Bar 5-14	164282	Cable Assembly 5-34	176301	Panel, Control 5-18
162017	Pad, Housing 5-14	164283	Cable Assembly 5-34	176302	Cable Assembly 5-18,5-19
162018	Pad 5-14	164284	Cable Assembly 5-34	176303	Cable Assembly 5-18,5-19
162019	Pad 5-14	164383**	Shelf 5-27	176667	Spacer 5-28
162020	Pad, Housing 5-14	164405**	Modification Kit 5-29,5-40	176668	Bracket 5-28
162021	Pad 5-14	164407	Cable Assembly 5-34	176669	Lever W/Hub and Pin 5-28
162234**	Modification Kit 5-38,5-39	164408	Cable Assembly 5-34	176670	Lever W/Hub 5-28
162235**	Modification Kit 5-38,5-39	164593	Plate, Slide (Left) 5-29	176671	Insulator 5-28
162236**	Cover W/Studs 5-14	164837	Panel, Control 5-18	176707	Bracket, Switch 5-28
162237	Chute, Tape 5-14,5-39	164838	Panel Assembly, Control 5-18	176711	Spring, Torsion - R.H. 5-28
162239**	Plate 5-21	164839	Cable Assembly 5-18	176712	Spring, Torsion - L.H. 5-28
162240**	Plate, Rear 5-21	164856	Indicator, Neon 5-18	176713	Modification Kit 5-28,5-41
162241**	Bin, Tape 5-21	164858**	Door Assembly 5-15	176785	Cable Assembly 5-28
162243**	Bin Assembly, Tape 5-21,5-38	164865	Indicator, Neon 5-18	178387	Modification Kit 5-30,5-41
162244**	Modification Kit 5-39	164866	Switch, Wafer 5-18	178389	Power Unit, Model B2 5-30
162591	Shaft, Line Guide 5-10	164936	Guide, Tape 5-32	178390	Bar, Static Eliminator Inductor 5-30
162629	Modification Kit 5-39	164938	Washer, Spring 5-32	178391	Cable, Inductor Bar Extension 5-30
162630	Modification Kit 5-39	164939	Guide W/Bushing 5-32	178392	Plug, Secondary Outlet 5-30
162898	Panel, Control 5-17	164941	Guide W/Roller, Tape 5-32	178729	Plate, Tear 5-25
162899	Cable Assembly 5-19	164942	Bracket 5-32	178837	Plate 5-19
163165	Modification Kit 5-39	164943	Plate W/Studs 5-32	178838	Modification Kit 5-19
163169	Shaft, Control 5-3,5-39	164944	Guide W/Roller, Tape 5-32	178892**	Copyholder 5-24
163170	Shaft, Control 5-3,5-39	165102	Screw, Special (12-24) 5-5	178893**	Plate 5-24
163172	Bracket, Arm 5-3,5-39	170272**	Modification Kit 5-15,5-40	178894**	Bracket 5-24
163173	Bracket, Arm 5-3,5-39	170302**	Housing, Dual LXD 5-15	178895	Shaft 5-24
163796**	Modification Kit 5-27,5-40	170303	Clip, Housing (Right) 5-15	178897**	Modification Kit 5-24,5-41
164024**	Modification Kit 5-23,5-40	170304	Clip, LXD Housing (Left) 5-15	178914**	Plate 5-24
164025**	Bracket 5-23	170305	Plate 5-15	179049	Bracket, Support 5-32
164028**	Copyholder 5-23	170306	Modification Kit 5-29,5-40	179193	Shaft 5-32
164084	Cable Assembly 5-20	170307	Plate, Trim 5-4	179197**	Panel 5-3
164120**	Modification Kit 5-20,5-40	170308	Window, Filler 5-3	179256	Chute Assembly, Chad 5-29
164121	Cable Assembly 5-34,5-40			179402	Deflector, Tape 5-21
164122	Lens, Green 5-6,5-40			179417**	Modification Kit 5-41
164123**	Panel 5-20	172749	Bracket 5-31	179449	Bracket 5-13
164124	Switch, Rotary 5-20	173097**	Modification Kit 5-27	179469	Modification Kit 5-13
164125	Cable Assembly 5-20	173138	Plate, Designation 5-3	179470	Modification Kit 5-13
164195	Plate, Switch 5-20	173206**	Bracket, Shelf (Left) 5-27	179493	Guide, Tape 5-14,5-39
164196	Modification Kit 5-40	173207**	Shelf (Left) 5-27	179600**	Holder 5-28
164197**	Modification Kit 5-20,5-40	173238	Modification Kit 5-40	179601**	Modification Kit 5-28,5-41
164198**	Panel, Control 5-20	173256	Cable Assembly 5-10,5-40	179860	Plate, Mounting 5-19
164199	Plate, Switch 5-20	173400**	Modification Kit 5-23,5-40	193674	Latch, Fastener 5-32
164235**	Bracket 5-26,5-27	173455	Cable Assembly 5-34	193675	Modification Kit 5-32,5-41
164272	Modification Kit 5-29,5-40	173456	Cable Assembly 5-34	194575	Post, Locating 5-26
164273	Chute W/Bracket 5-29	173457	Cable Assembly 5-34	194855	Guide, Tape 5-19
164275	Chute W/Bracket 5-29	173458	Cable Assembly 5-34	194857**	Modification Kit 5-26,5-41
164276**	Container, Chad 5-29	173781	Cable Assembly 5-34	194858**	Plate, Mounting 5-26
164277	Plate, Slide (Right) 5-29	173920	Arm Assembly, Stop 5-6	194859**	Modification Kit 5-26,5-41
164278	Chute, Chad 5-29	174458**	Modification Kit 5-25,5-40	194860**	Plate, Mounting 5-26
164279	Chute Assembly, Chad 5-29	176167	Lampholder 5-9	194861	Modification Kit 5-19,5-41
164281	Cable Assembly 5-34	176300	Modification Kit 5-18,5-41	195267	Guide W/Roller, Tape 5-14
				195841**	Plate, Cover 5-4

SECTION 6
ELECTRICAL SERVICE UNIT (LESU)

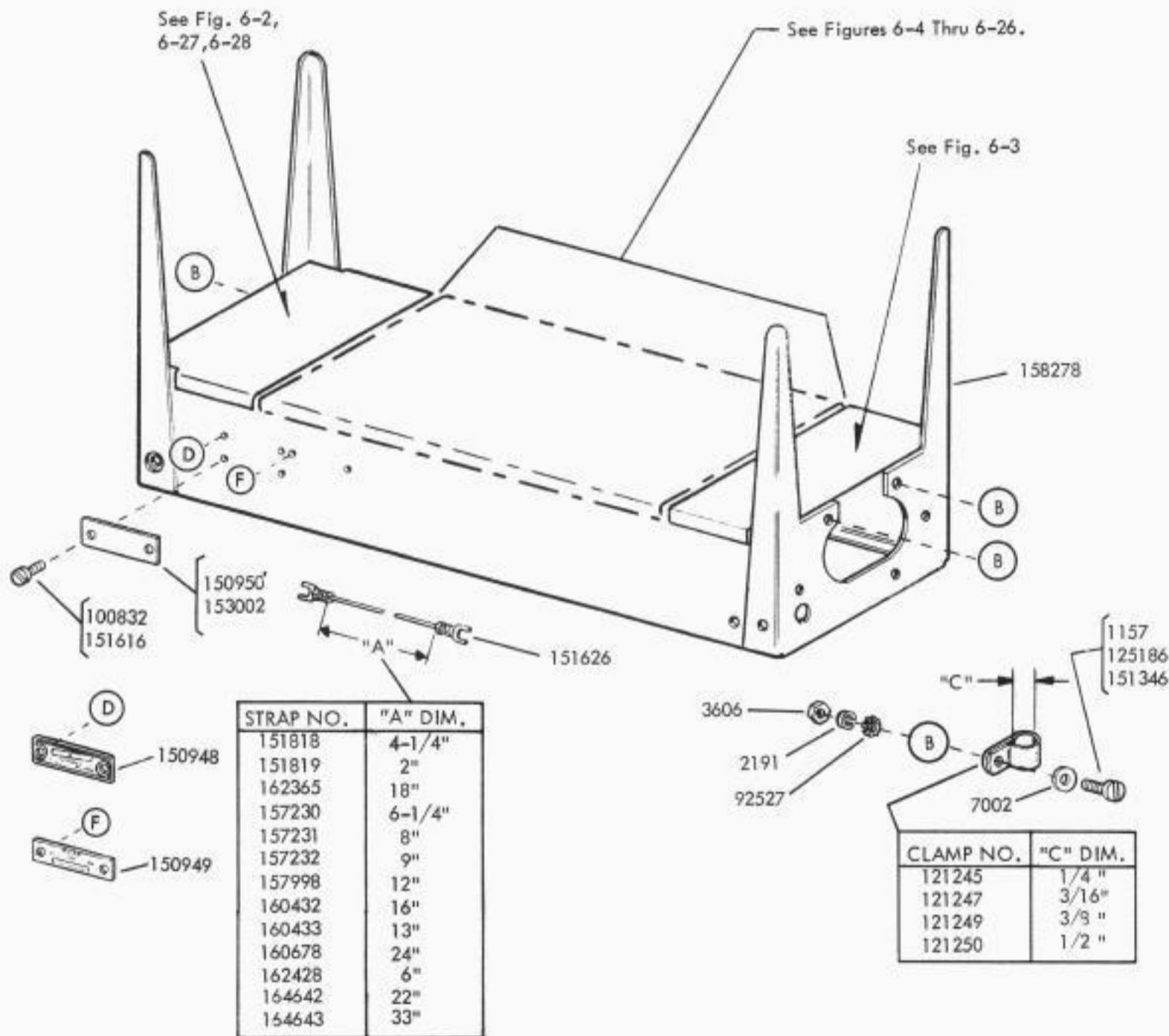


FIGURE 6-1. ELECTRICAL SERVICE UNIT (LESU)

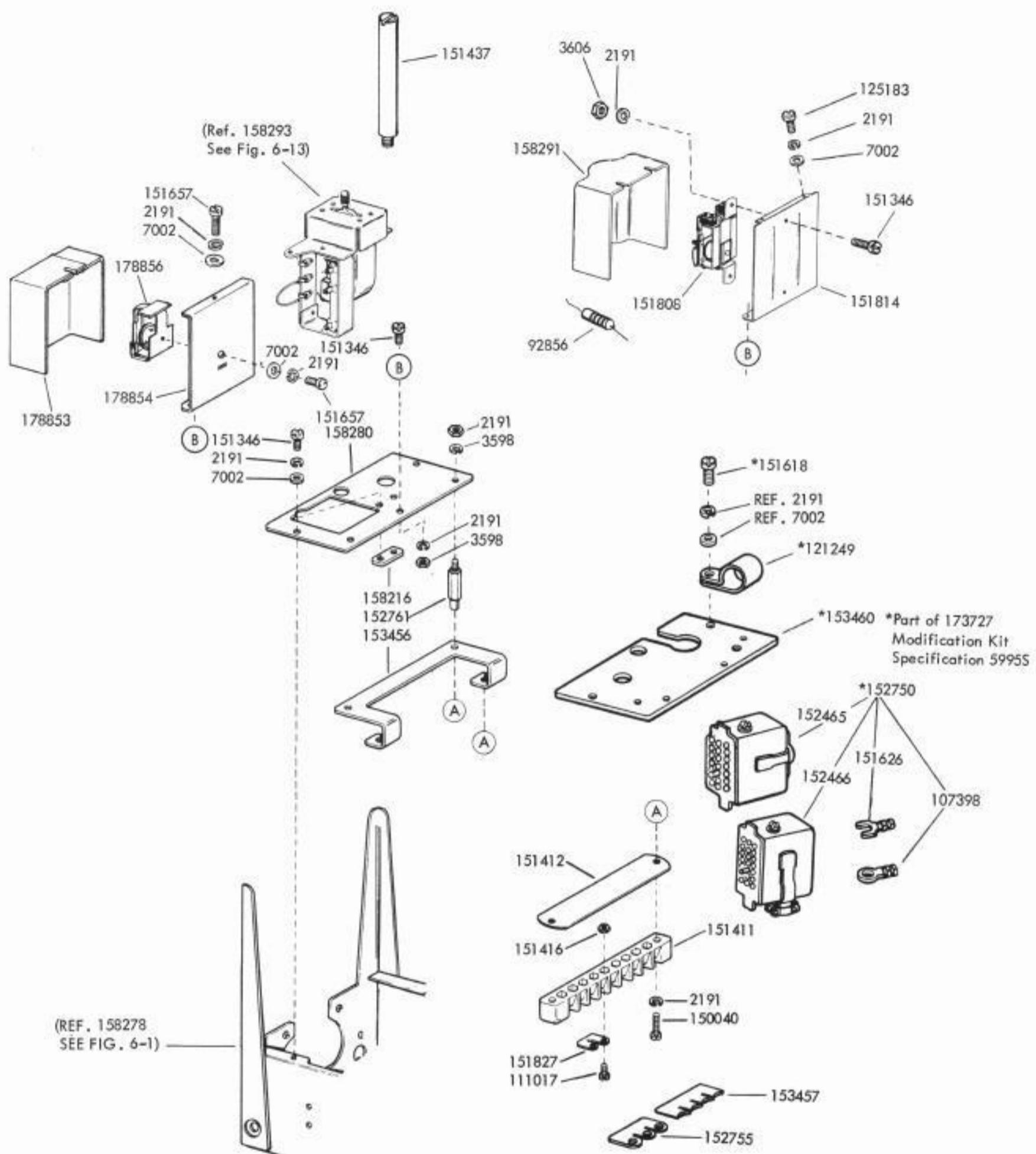


FIGURE 6-2. LINE SHUNT RELAYS

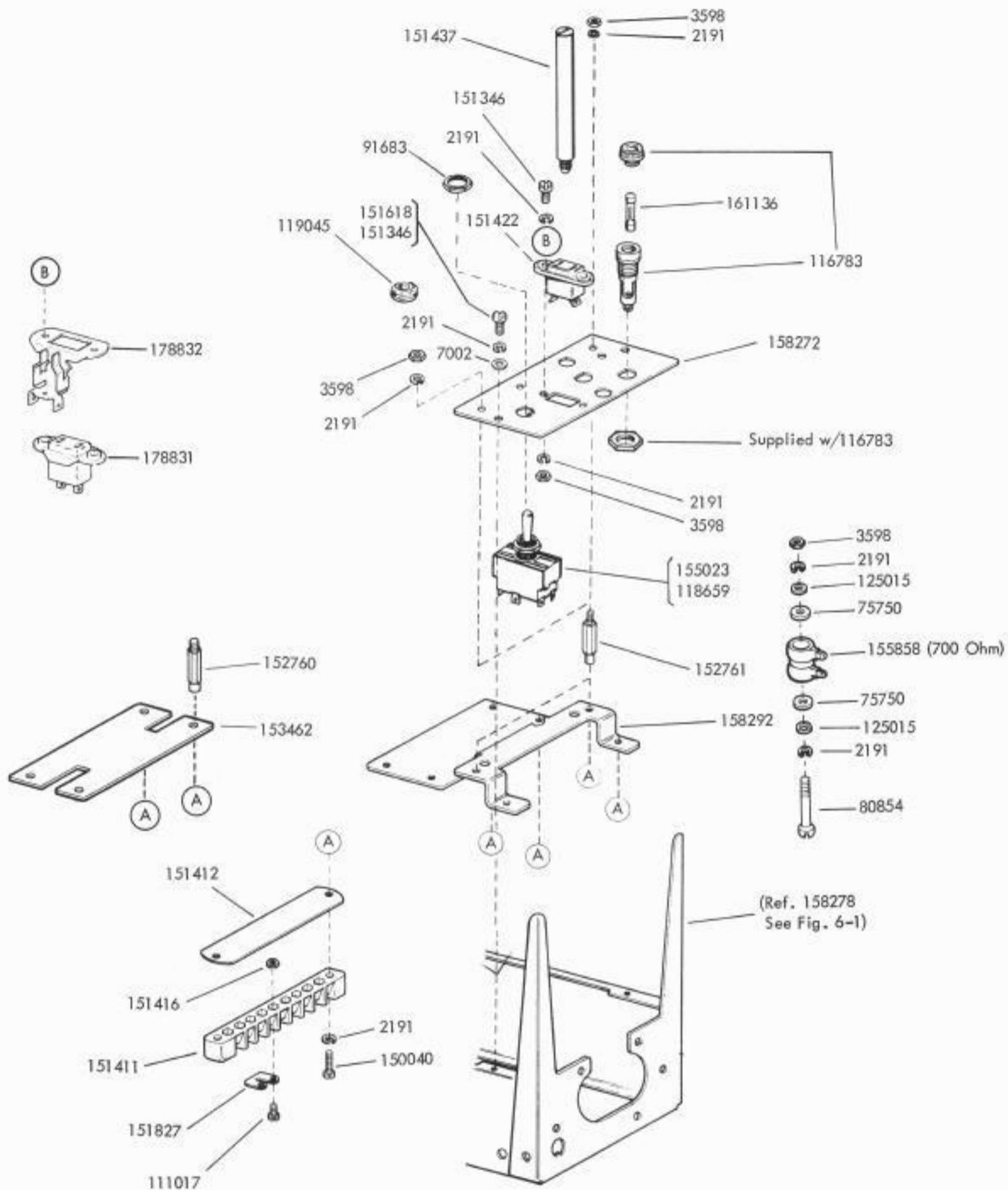


FIGURE 6-3. FUSE MOUNTING PLATE AND TERMINAL BLOCK BRACKETS

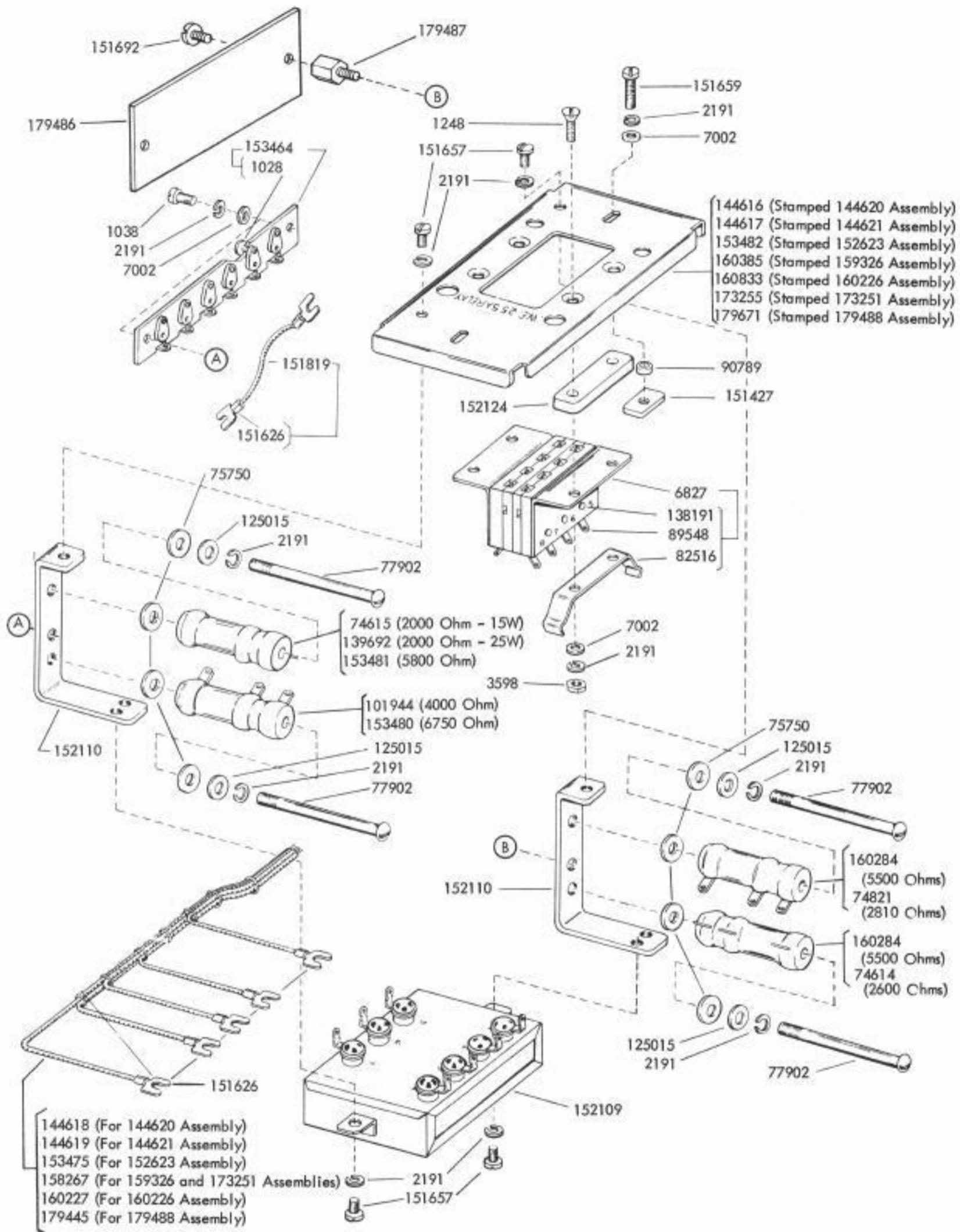


FIGURE 6-4. LINE RELAY MOUNTING

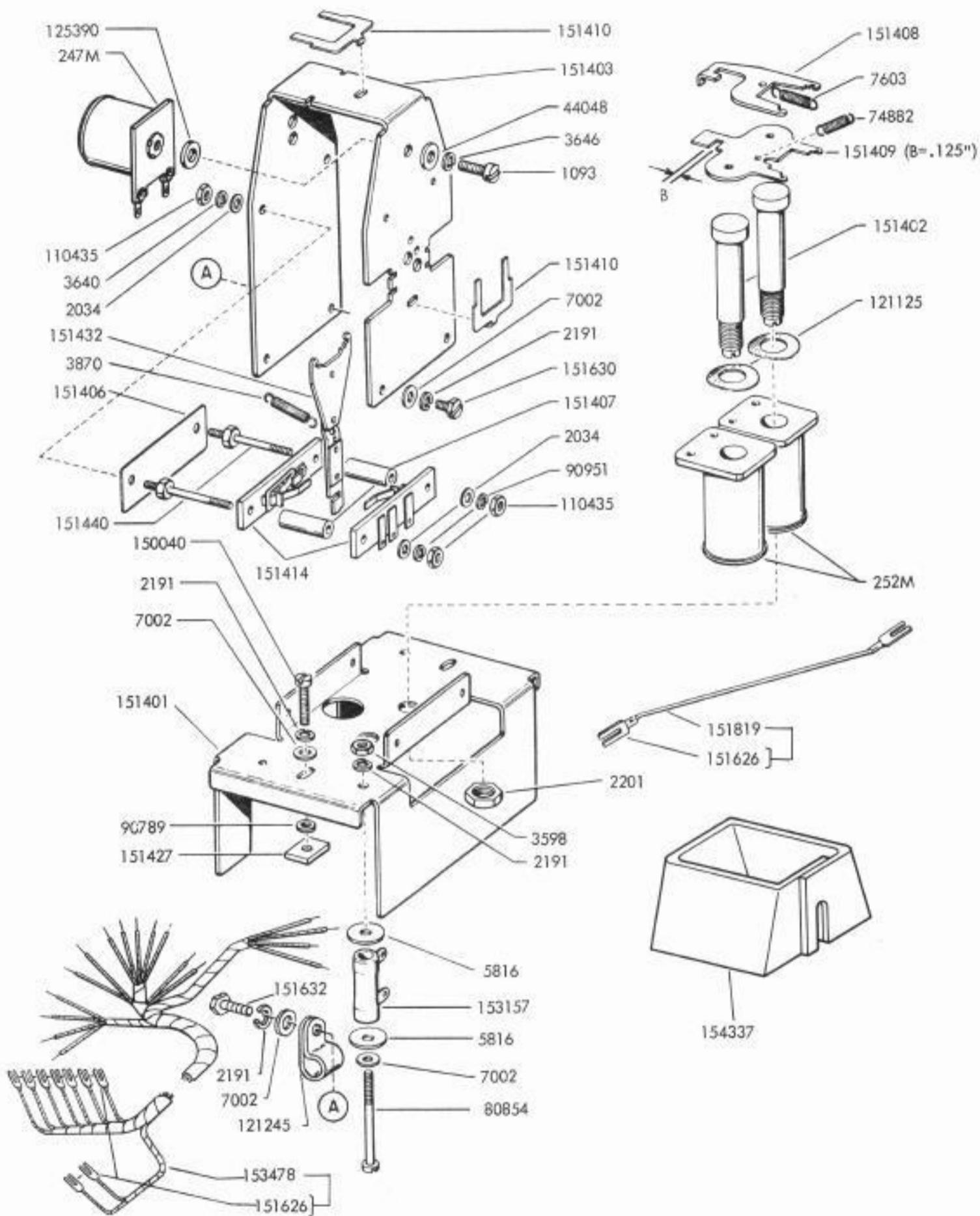
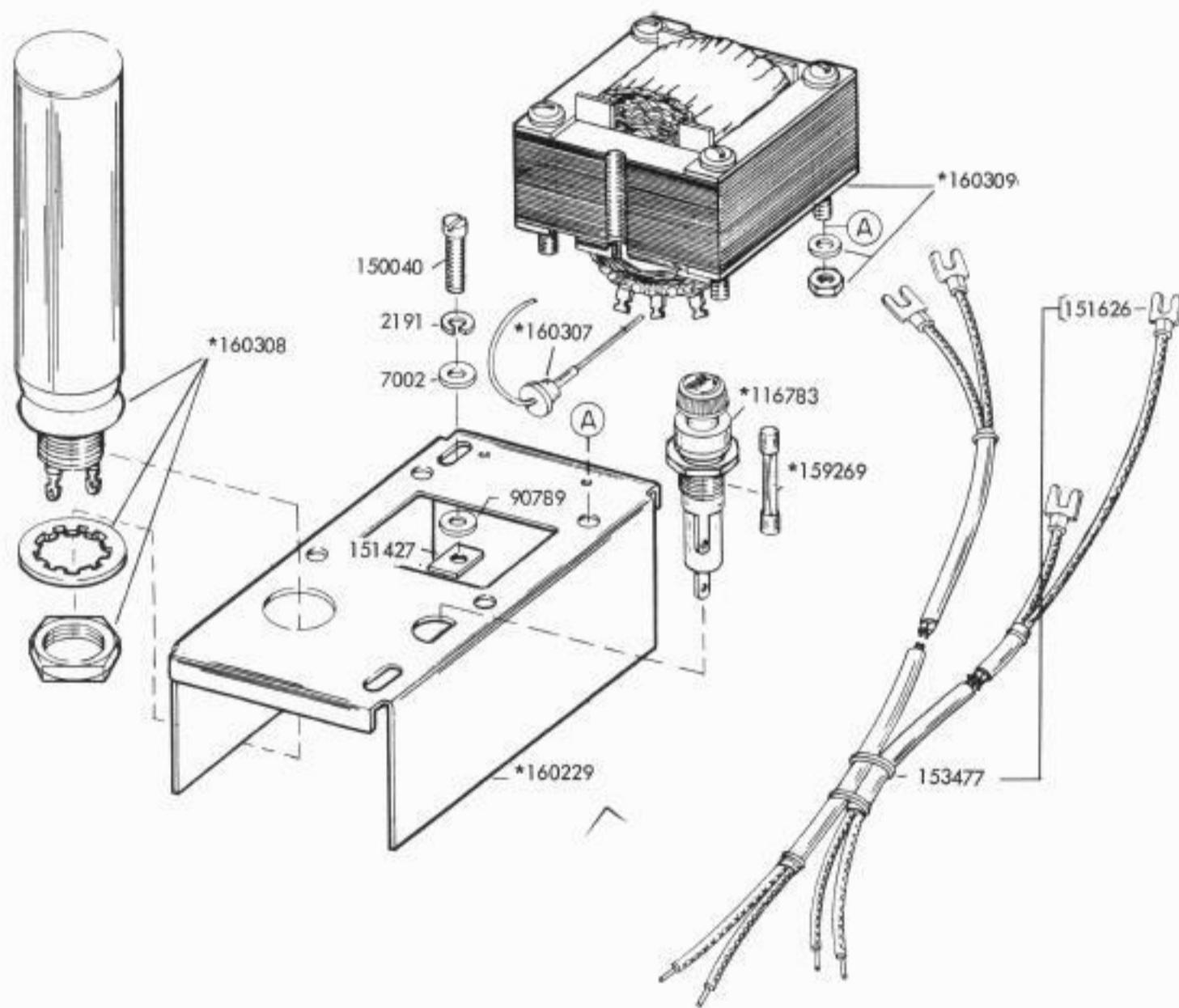
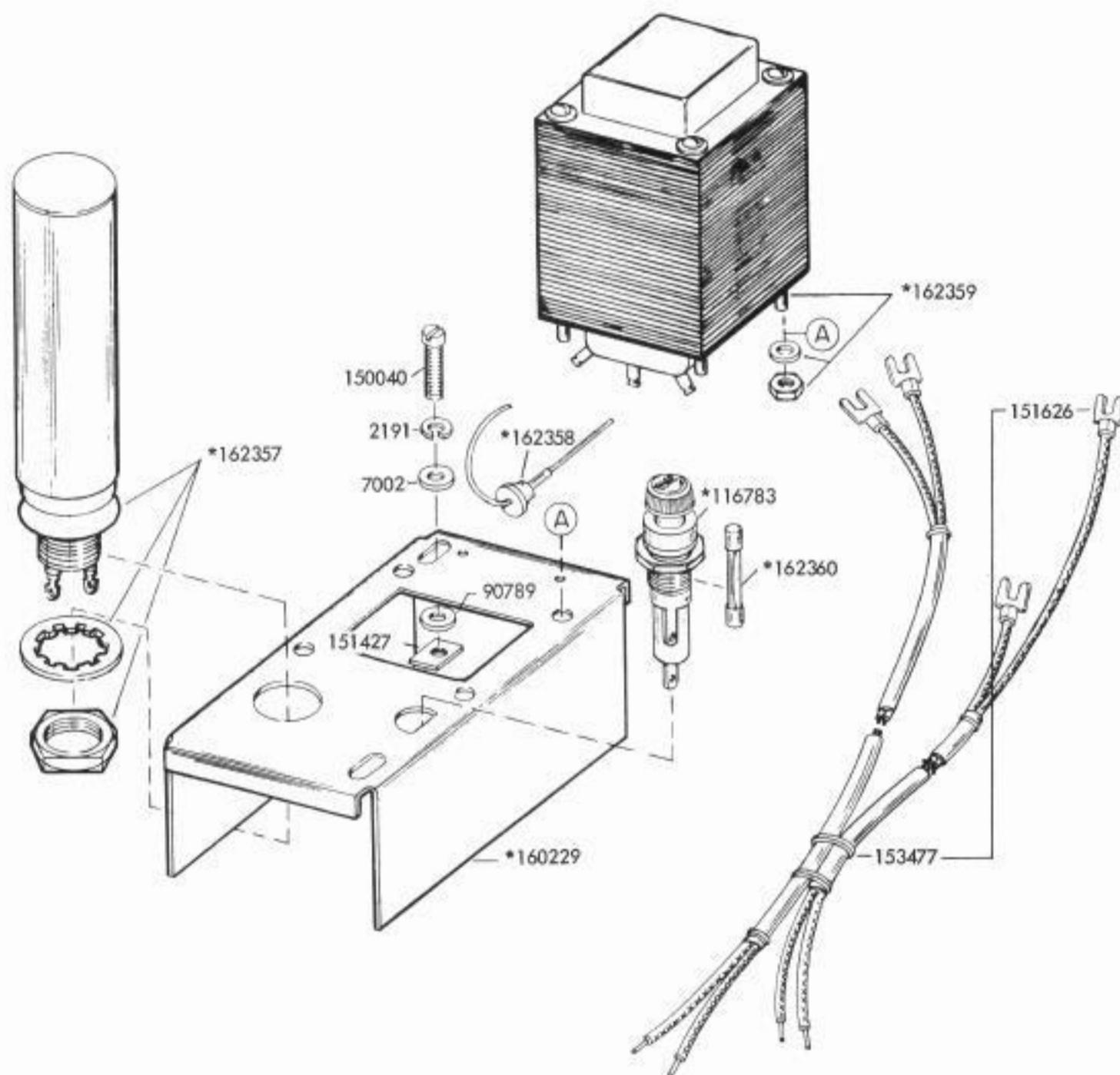


FIGURE 6-5. 153251 ELECTRICAL MOTOR CONTROL ASSEMBLY



See Figure 6-7 for Late Design

FIGURE 6-6. EARLY DESIGN RECTIFIER AND CABLE ASSEMBLY (300 MA)

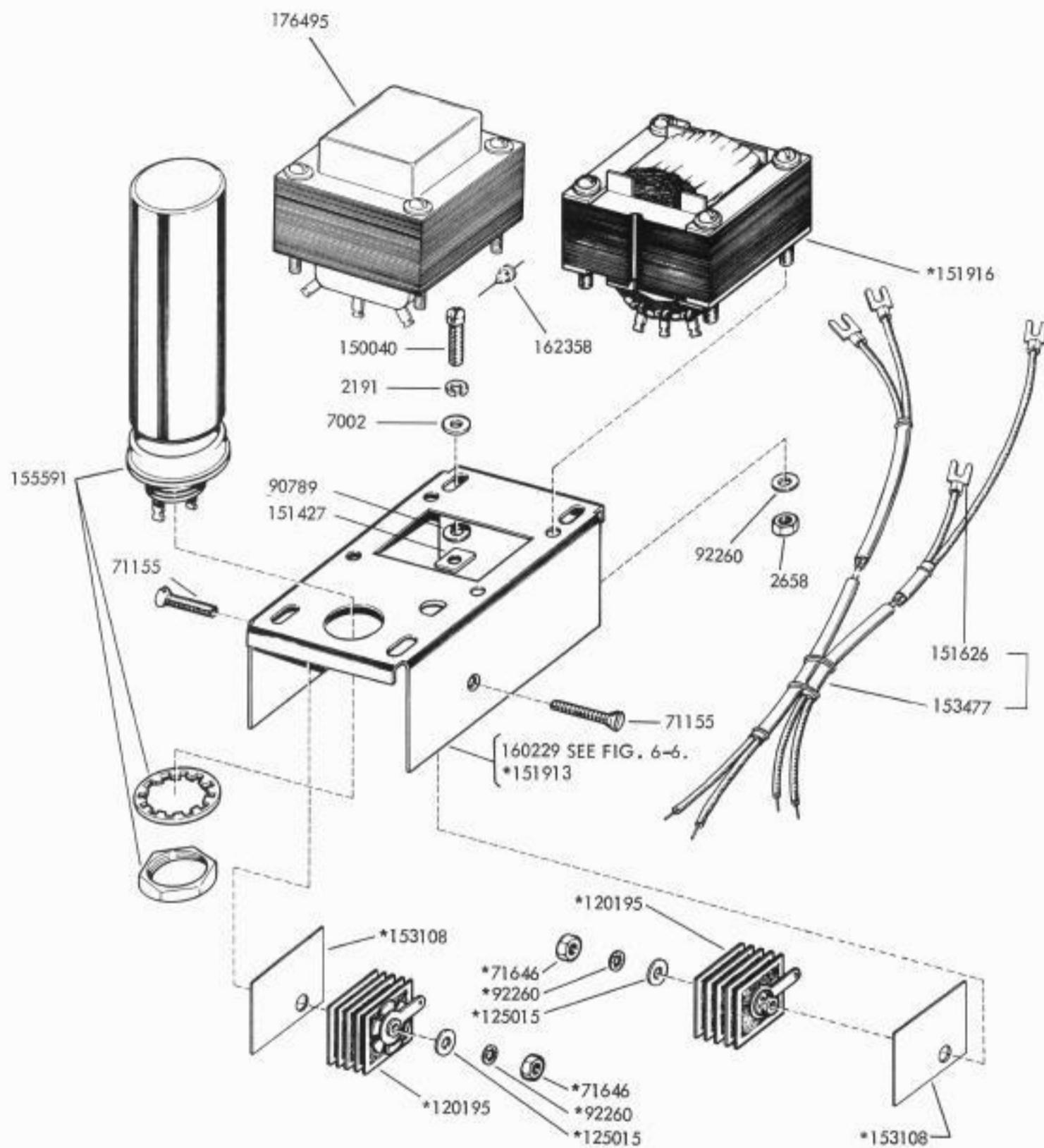


See Figure 6-6 for Early Design

SPECIFICATION 5707S

*Part of 162356 Rectifier

FIGURE 6-7. 162361 RECTIFIER AND CABLE ASSEMBLY (500 MA)



*Early Design Parts
(120 MA)

FIGURE 6-8. 152950 RECTIFIER AND CABLE ASSEMBLY (150 MA)

1169B

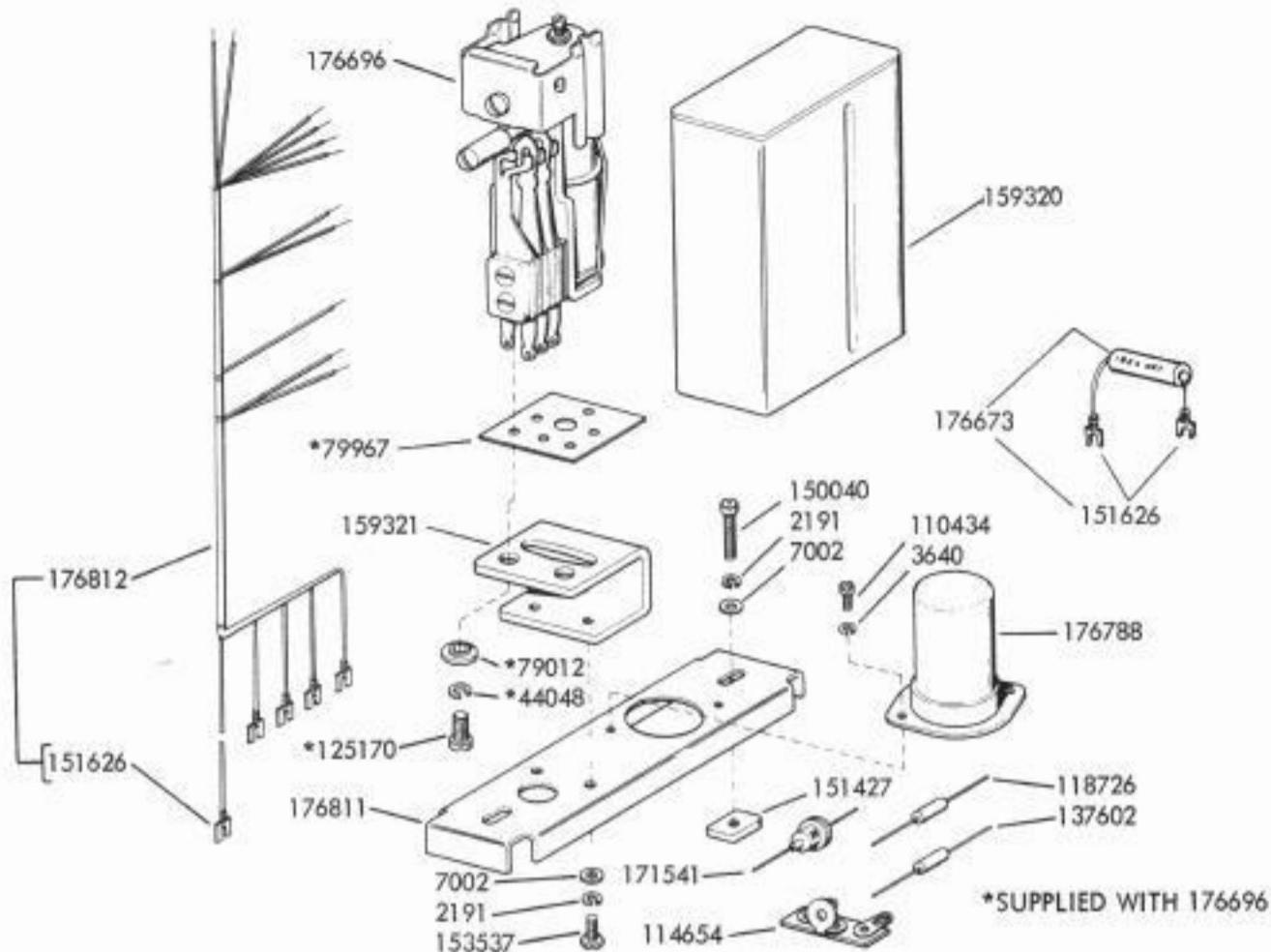


FIGURE 6-9. 176810 ANSWER-BACK CONTROL RELAY ASSEMBLY

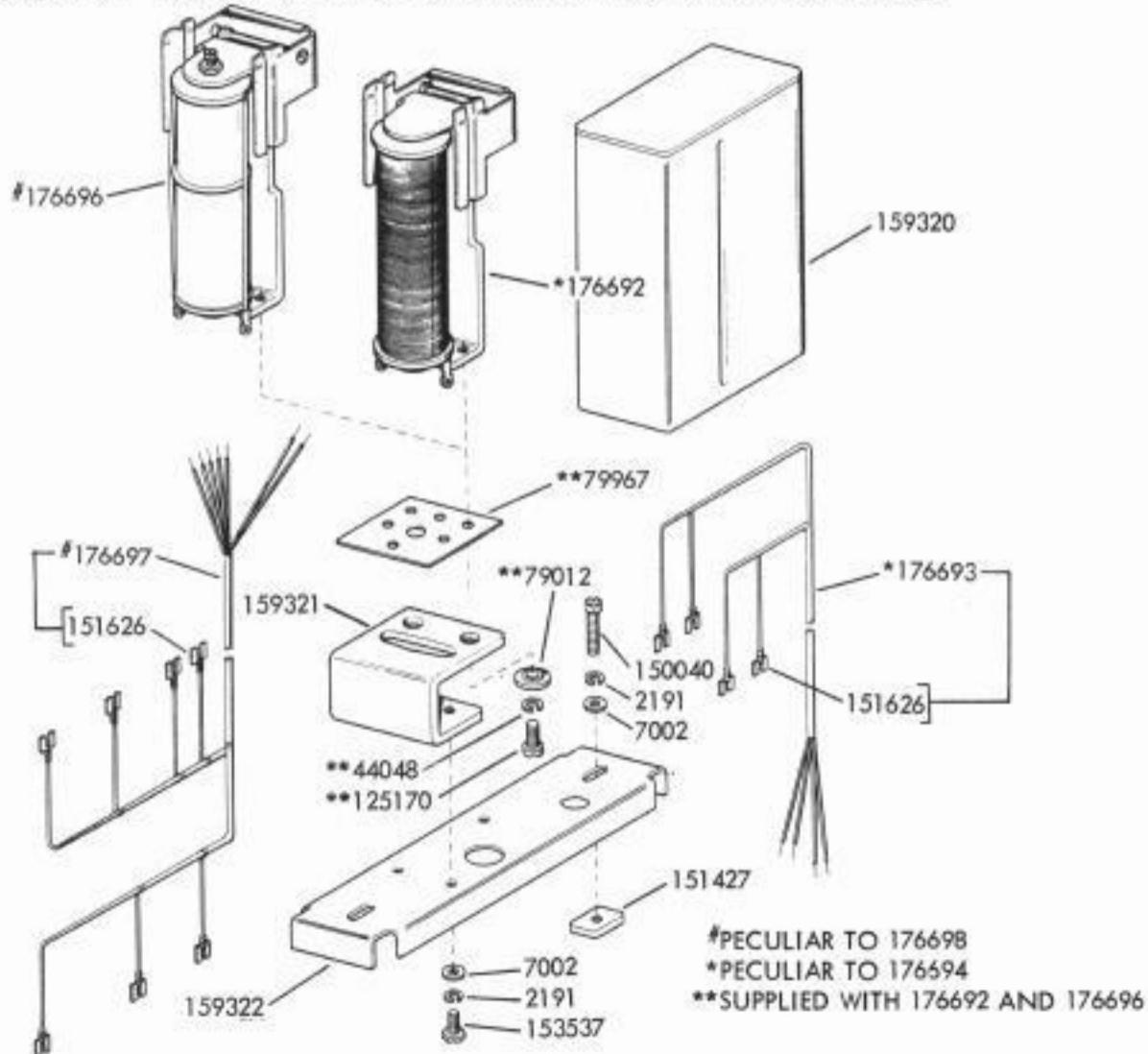


FIGURE 6-10. 176694 (MOTOR CONTROL) AND 176698 (SLOW RELEASE) RELAY ASSEMBLIES

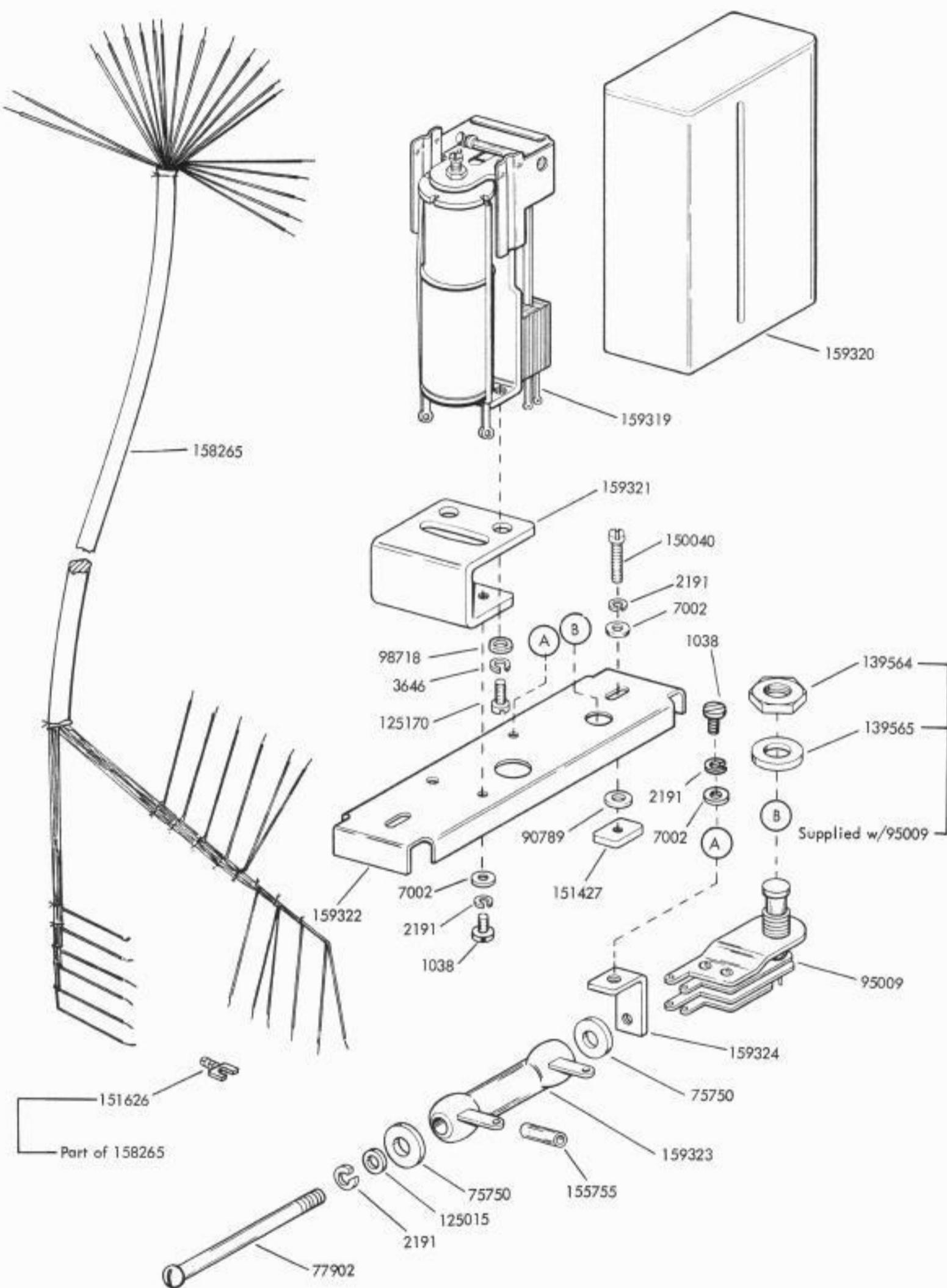
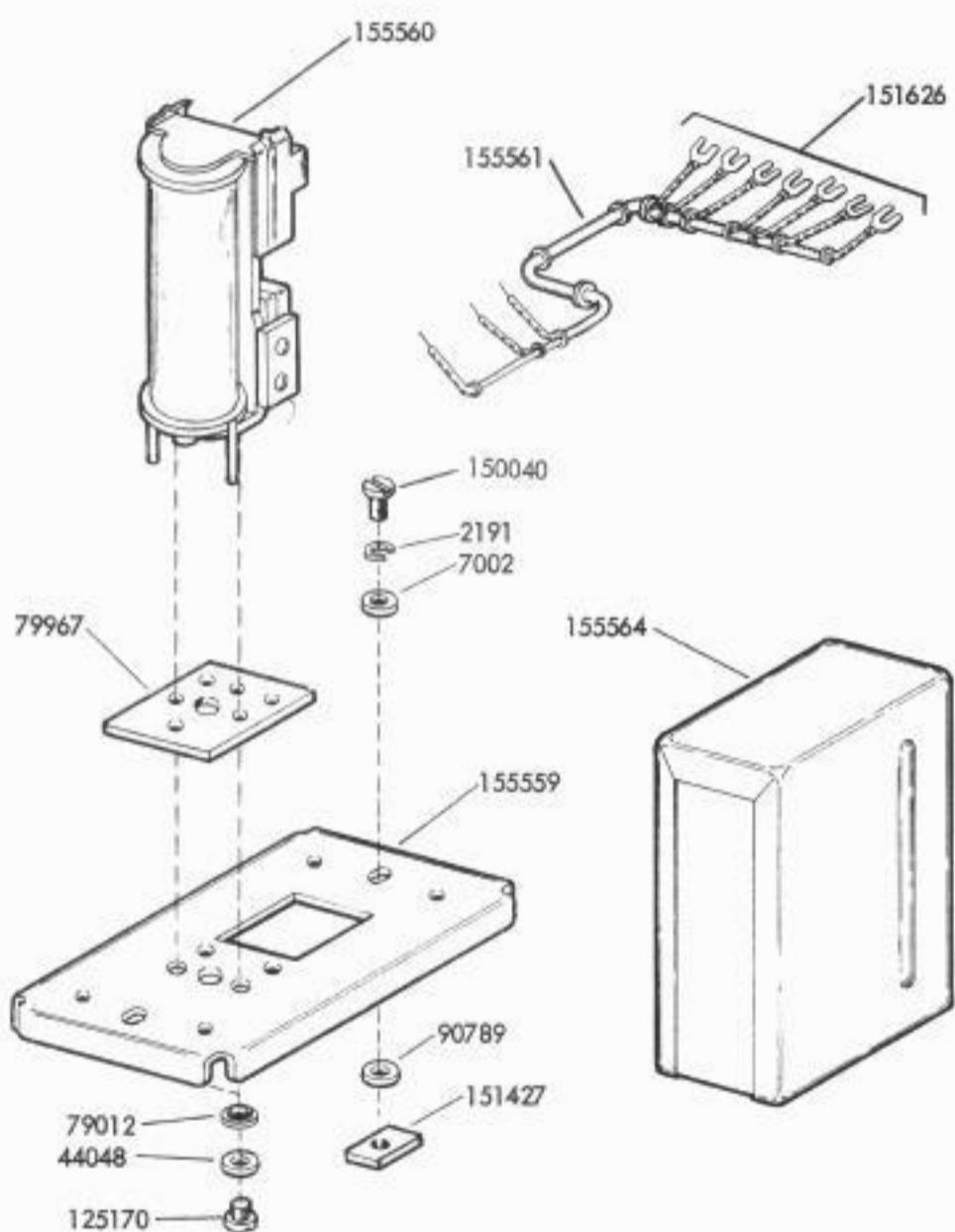


FIGURE 6-11. 159318 SLOW RELEASE RELAY ASSEMBLY



SPECIFICATION 58815

FIGURE 6-12. 155558 D.C. CONTROL RELAY ASSEMBLY

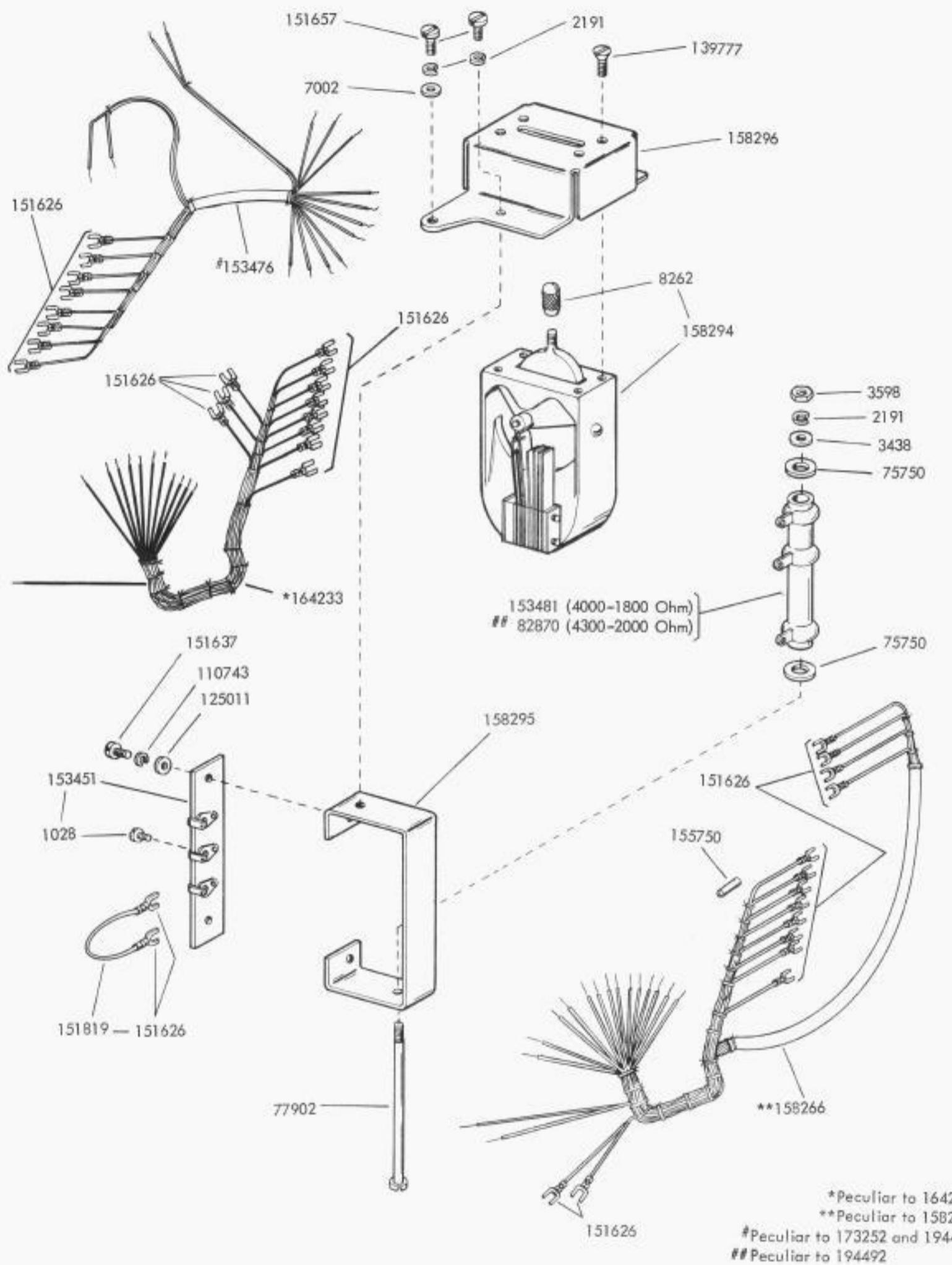
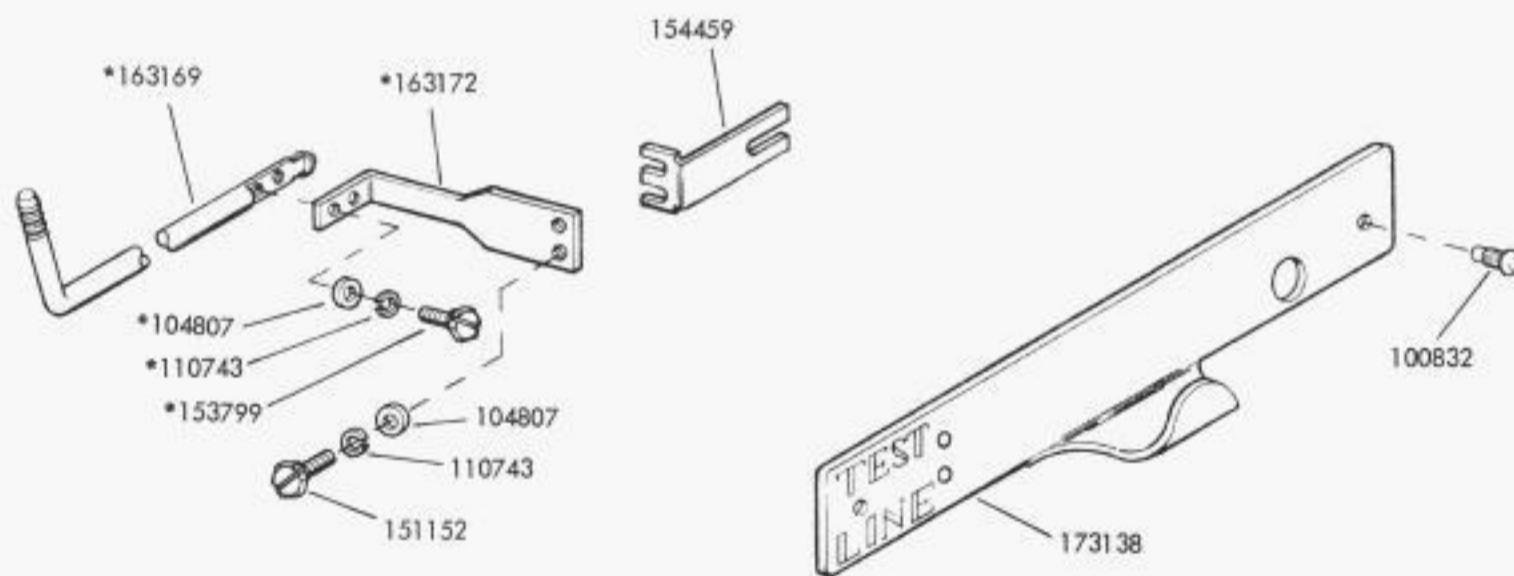
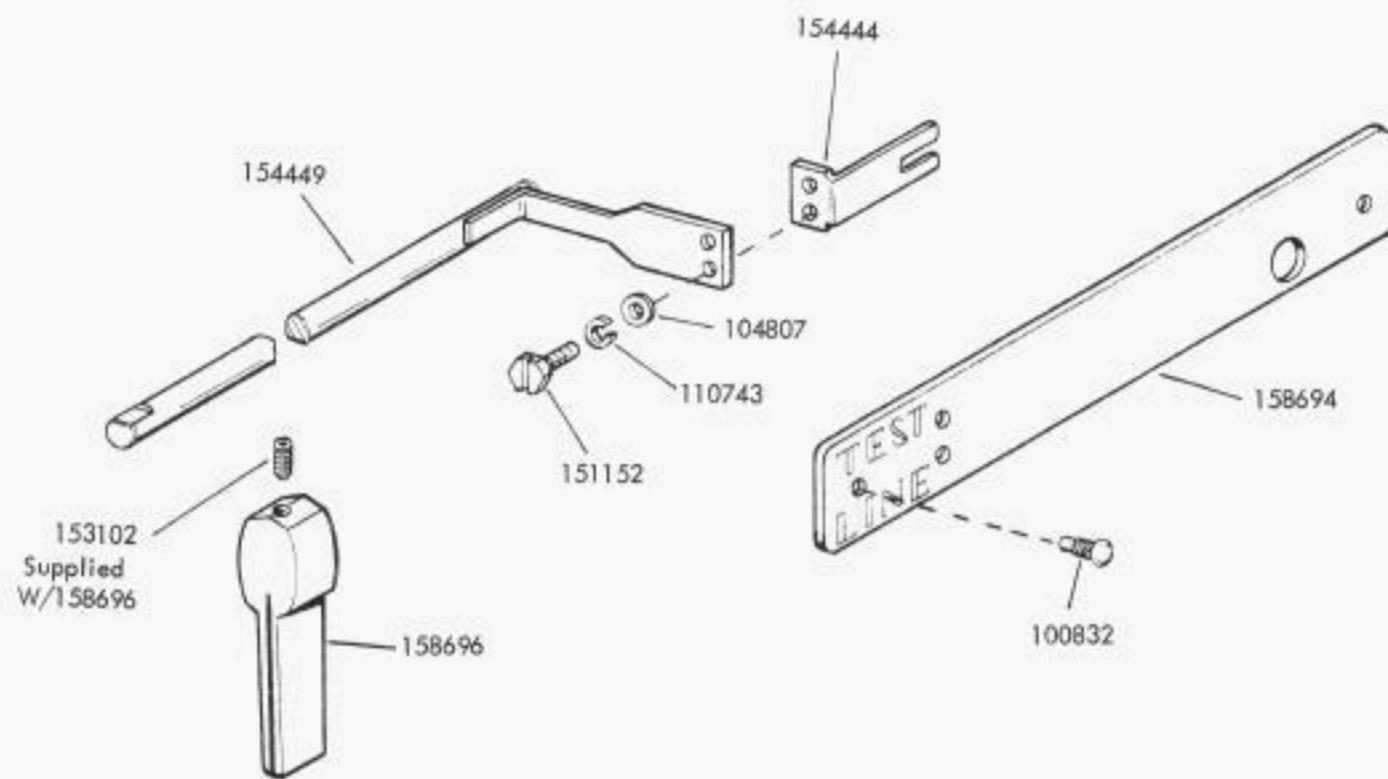


FIGURE 6-13. 158293, 164232, 173252 AND 194492 LINE TEST KEY ASSEMBLIES



*Part of 162630 Modification Kit Specification 501055

FIGURE 6-14. LINE TEST KEY CONTROL

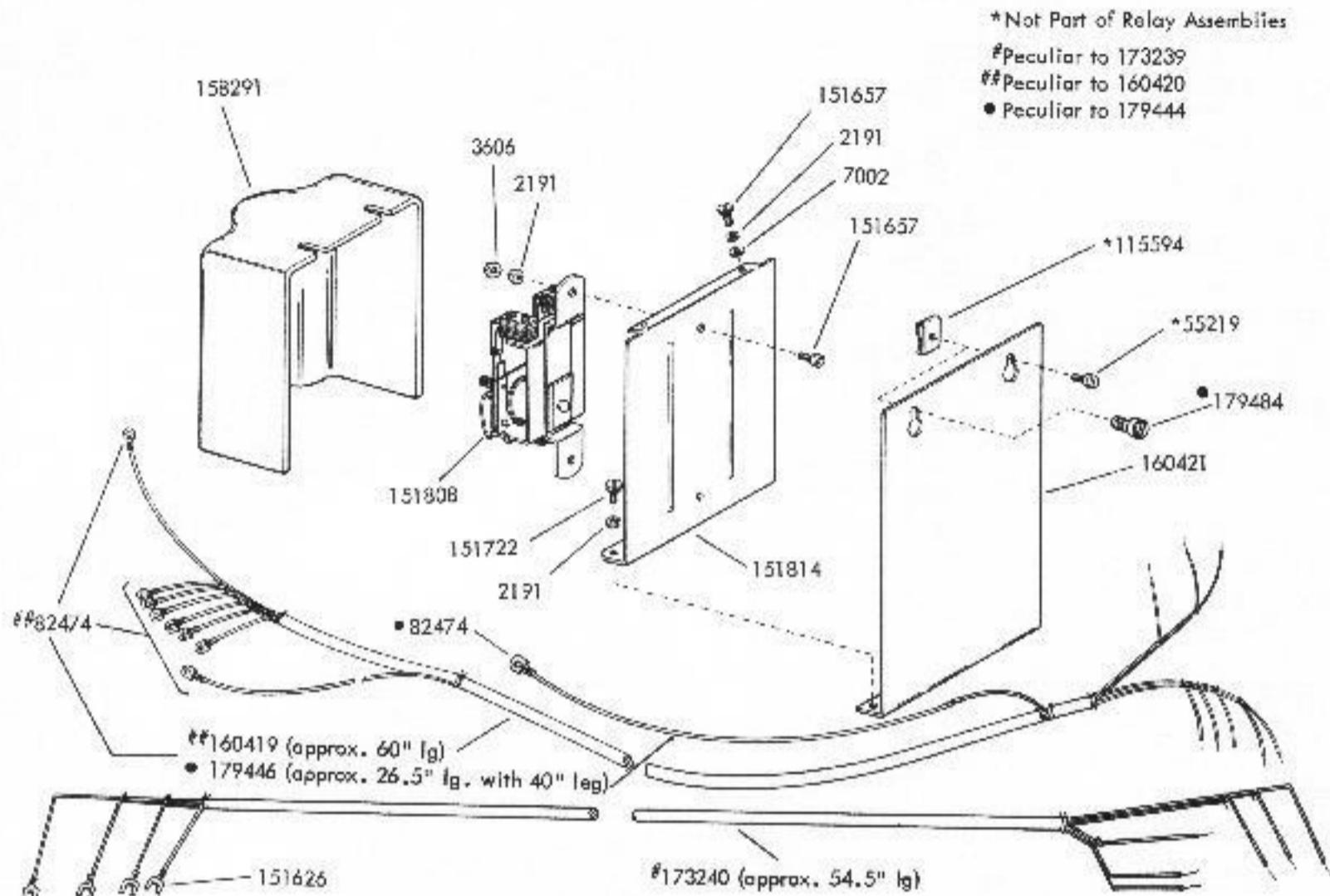
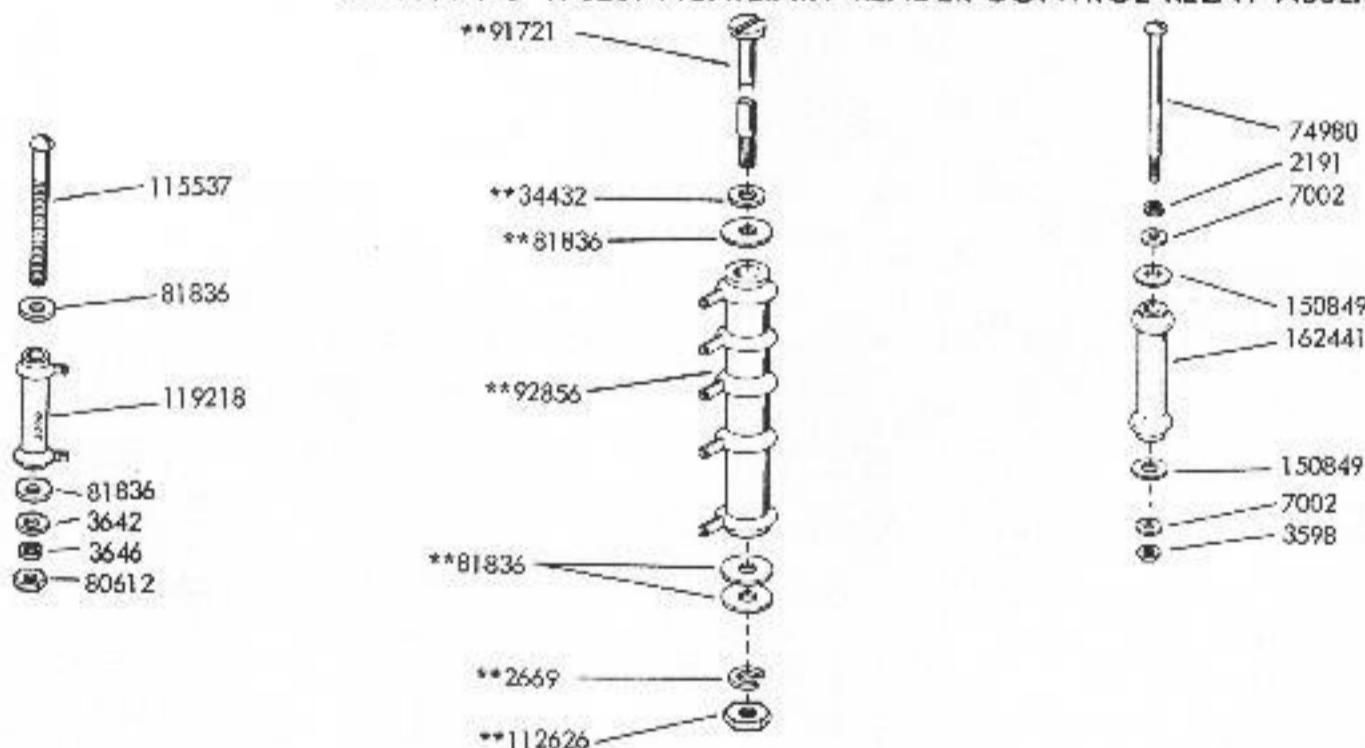


FIGURE 6-15. 160420 AUXILIARY LINE SHUNT RELAY ASSEMBLY
179444 AND 173239 AUXILIARY READER CONTROL RELAY ASSEMBLIES



**Part of the 93073 Modification Kit

FIGURE 6-16. RESISTOR ASSEMBLIES

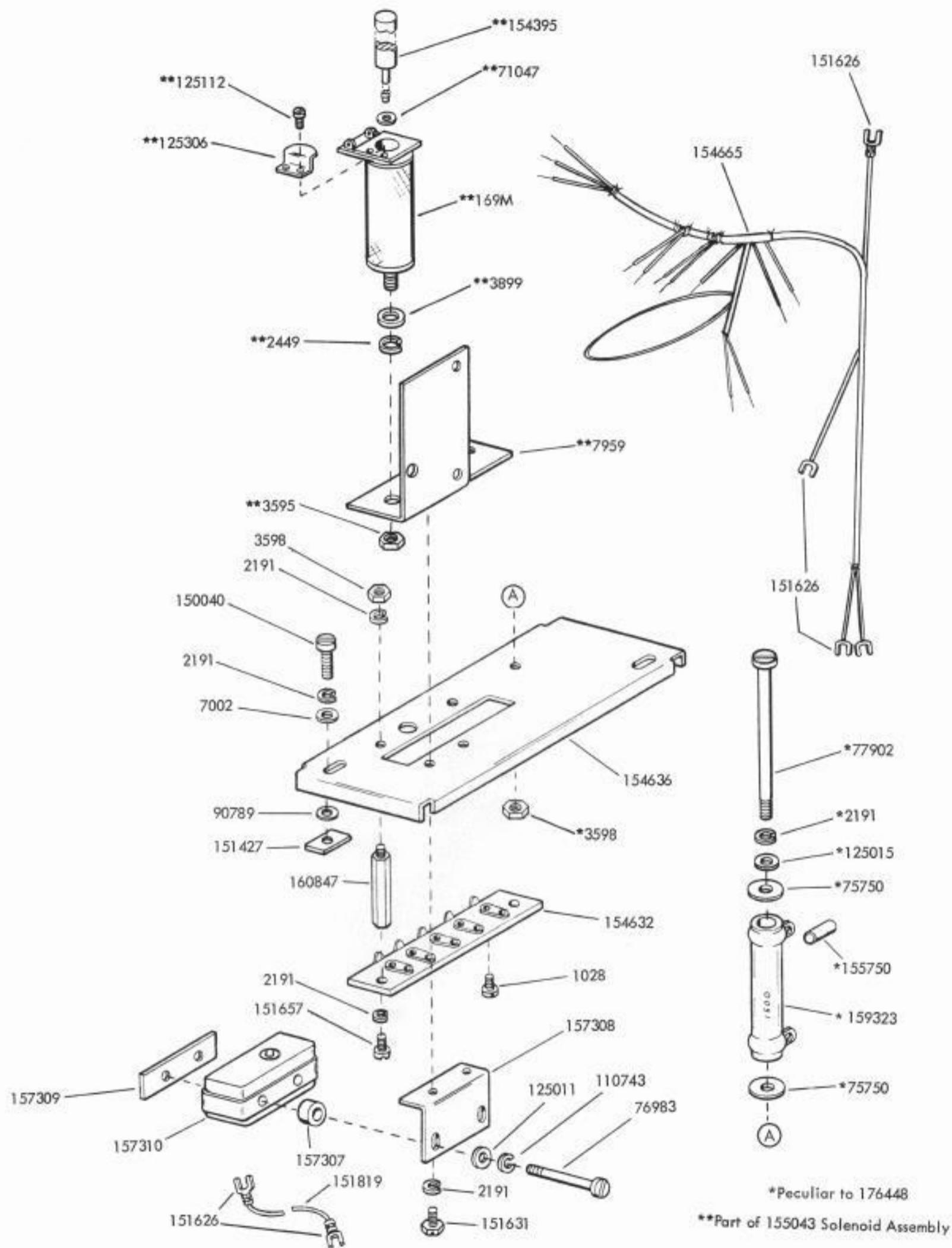


FIGURE 6-17. 152332 AND 176448 RELAY MOTOR CONTROL ASSEMBLIES

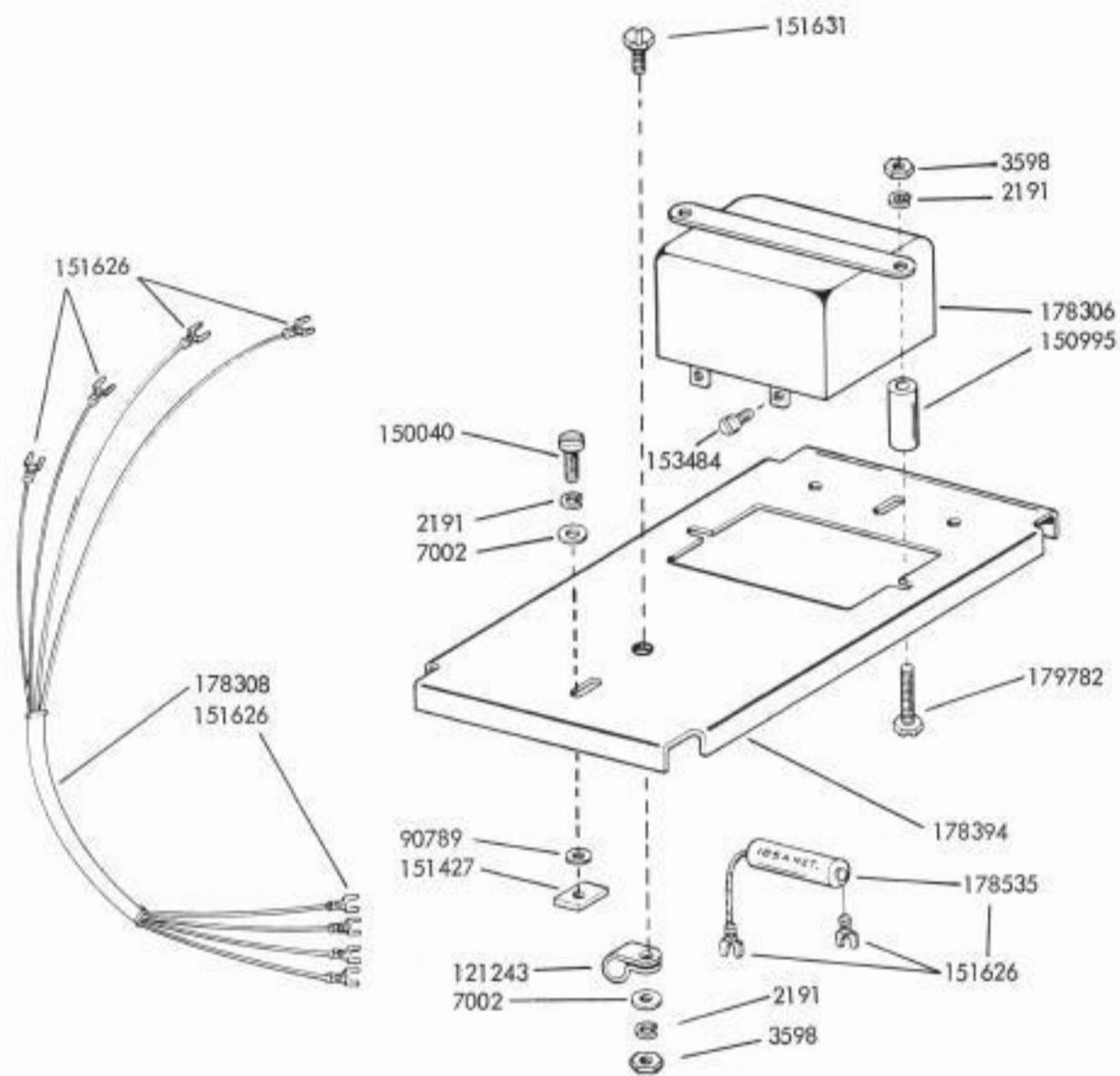


FIGURE 6-18. 178307 MOTOR CONTROL RELAY ASSEMBLY

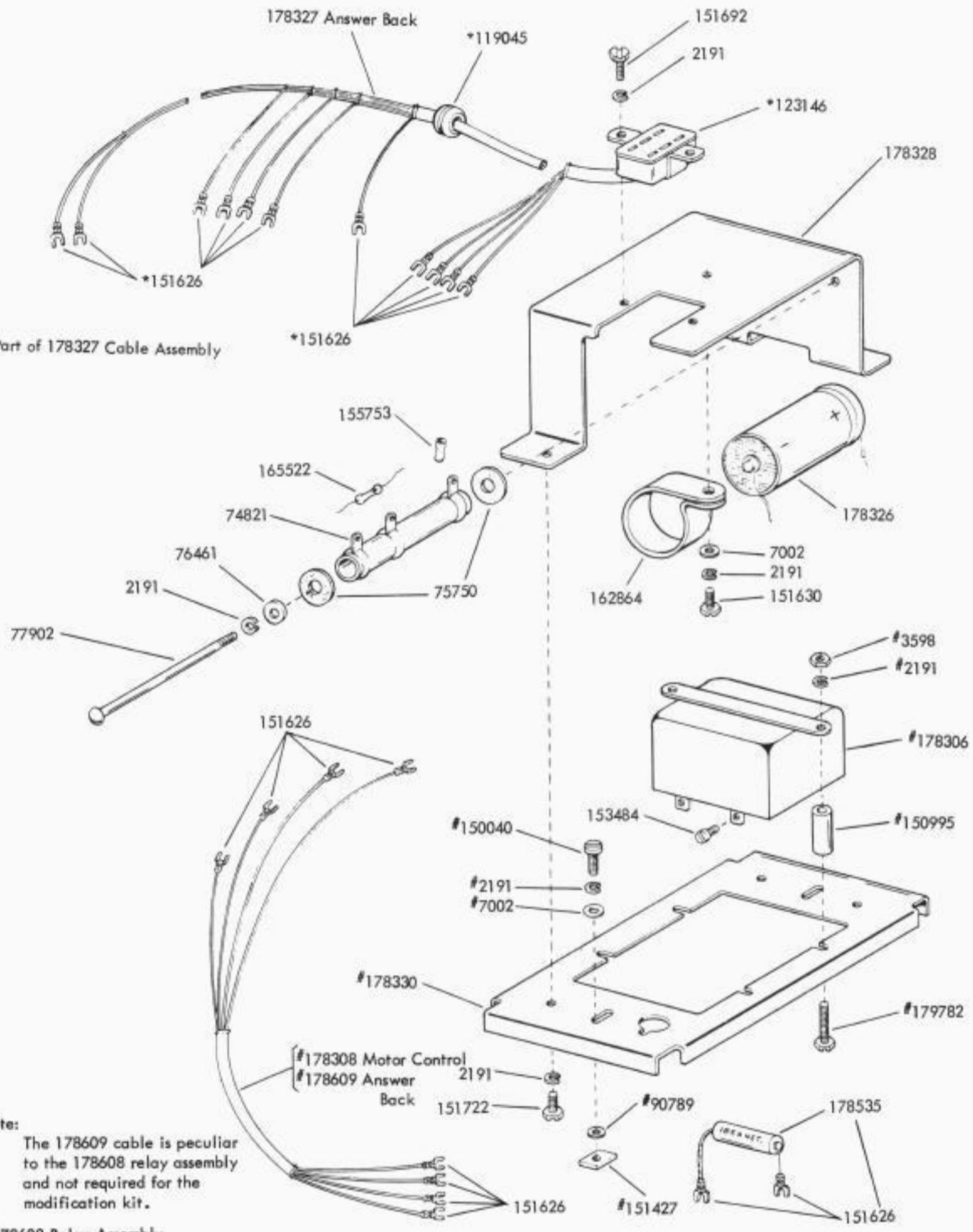
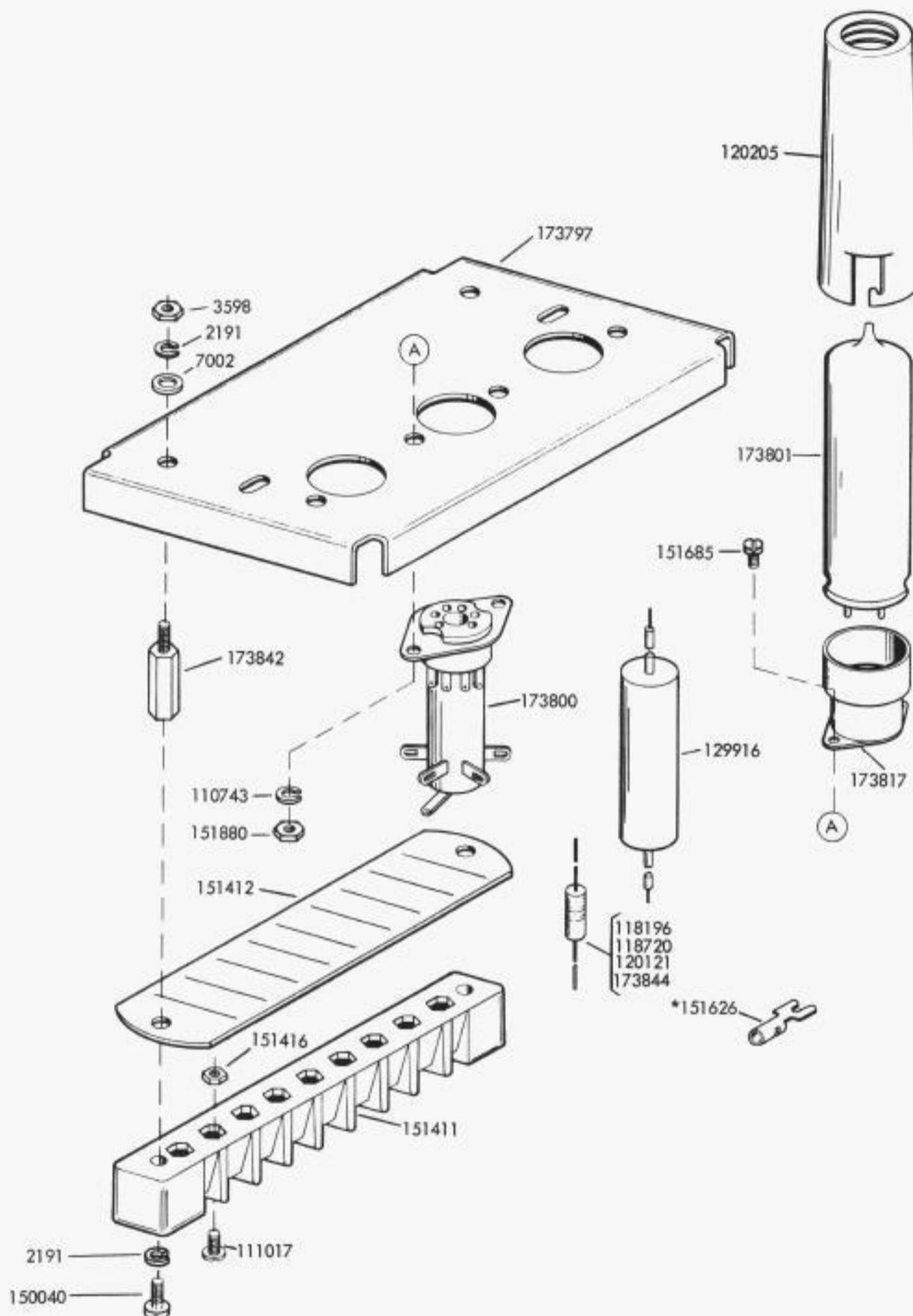


FIGURE 6-19. 178345 MODIFICATION KIT TO PROVIDE MOTOR CONTROL AND ANSWER BACK RELAYS



*Peculiar to 173452

FIGURE 6-20. 173452 ELECTRONIC KEYER ASSEMBLY

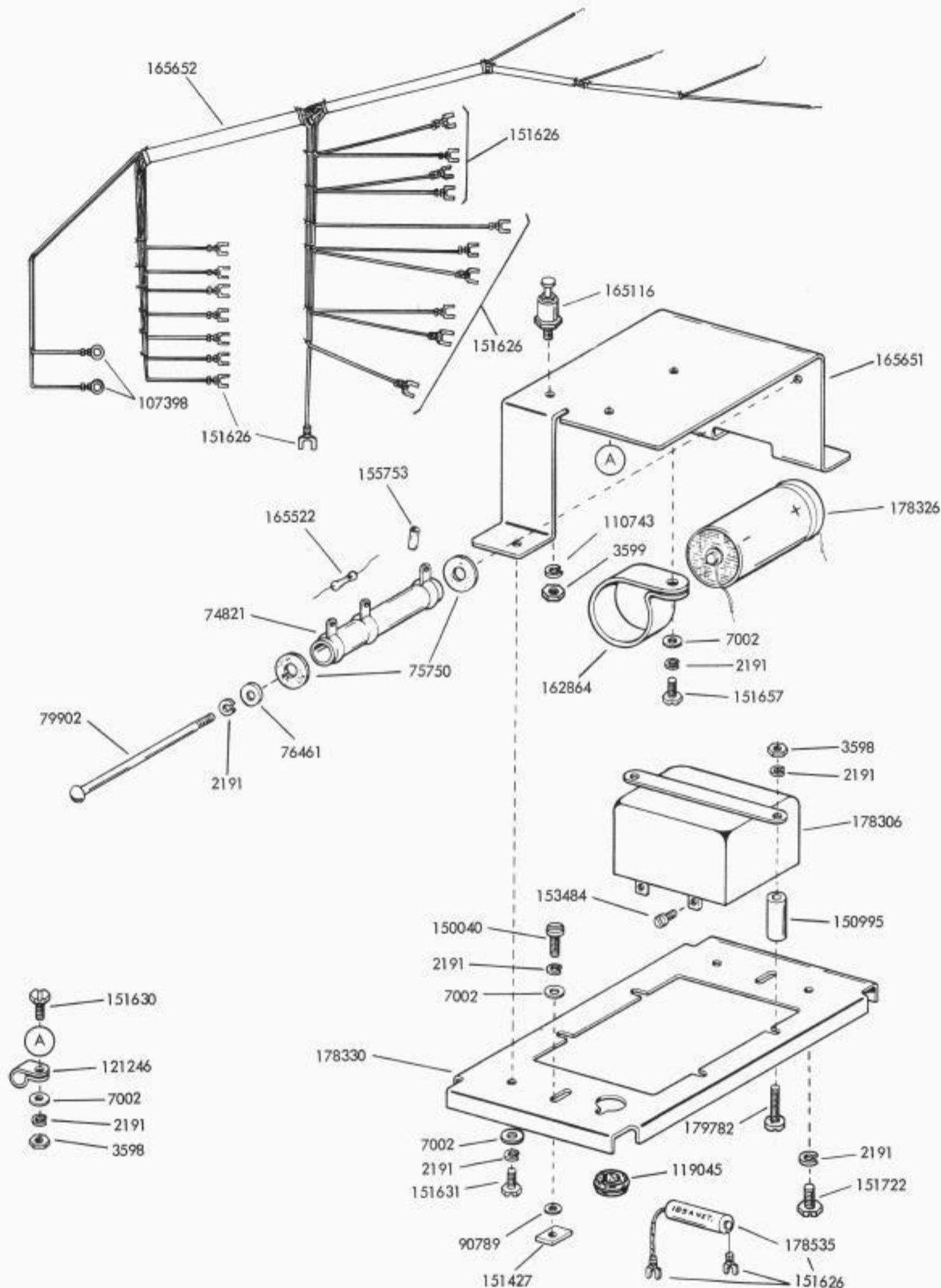


FIGURE 6-21. 165650 MOTOR CONTROL AND ANSWER BACK RELAY ASSEMBLY

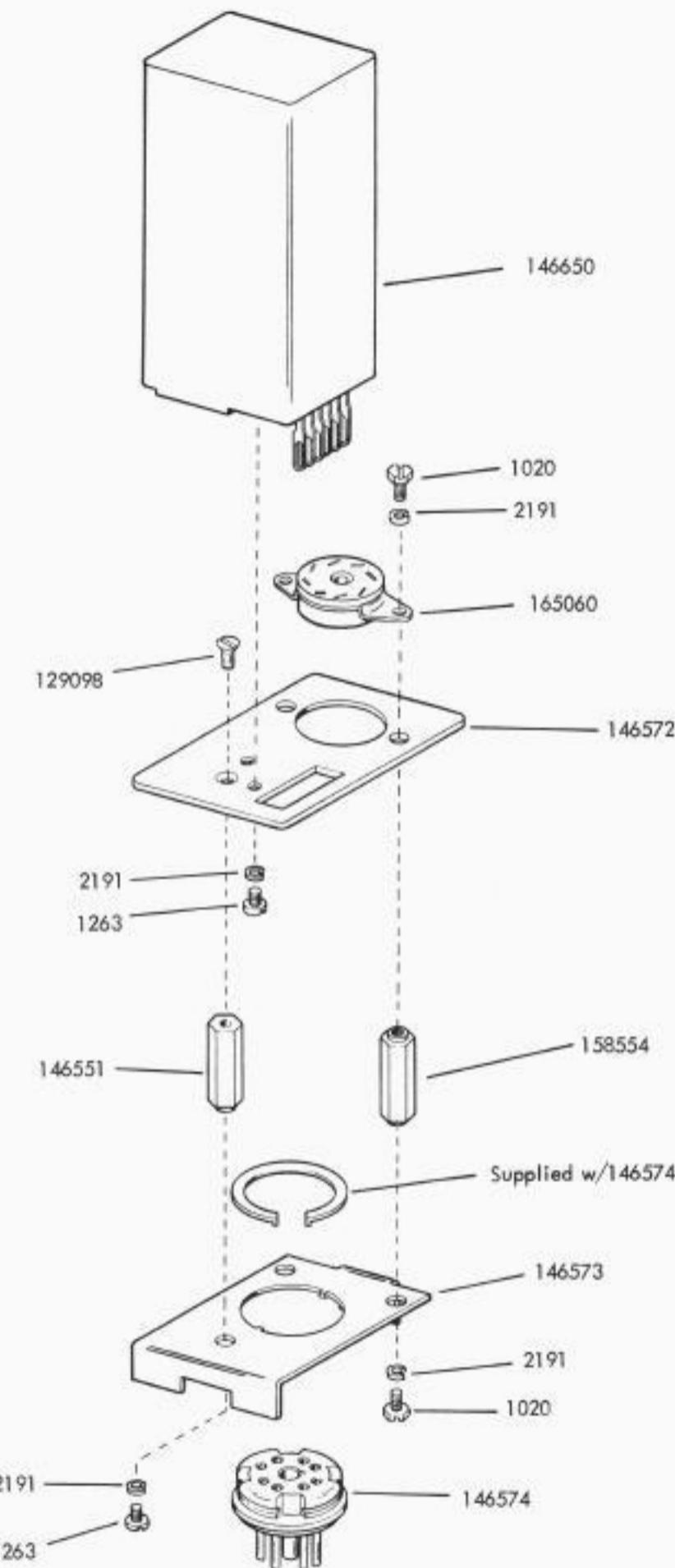
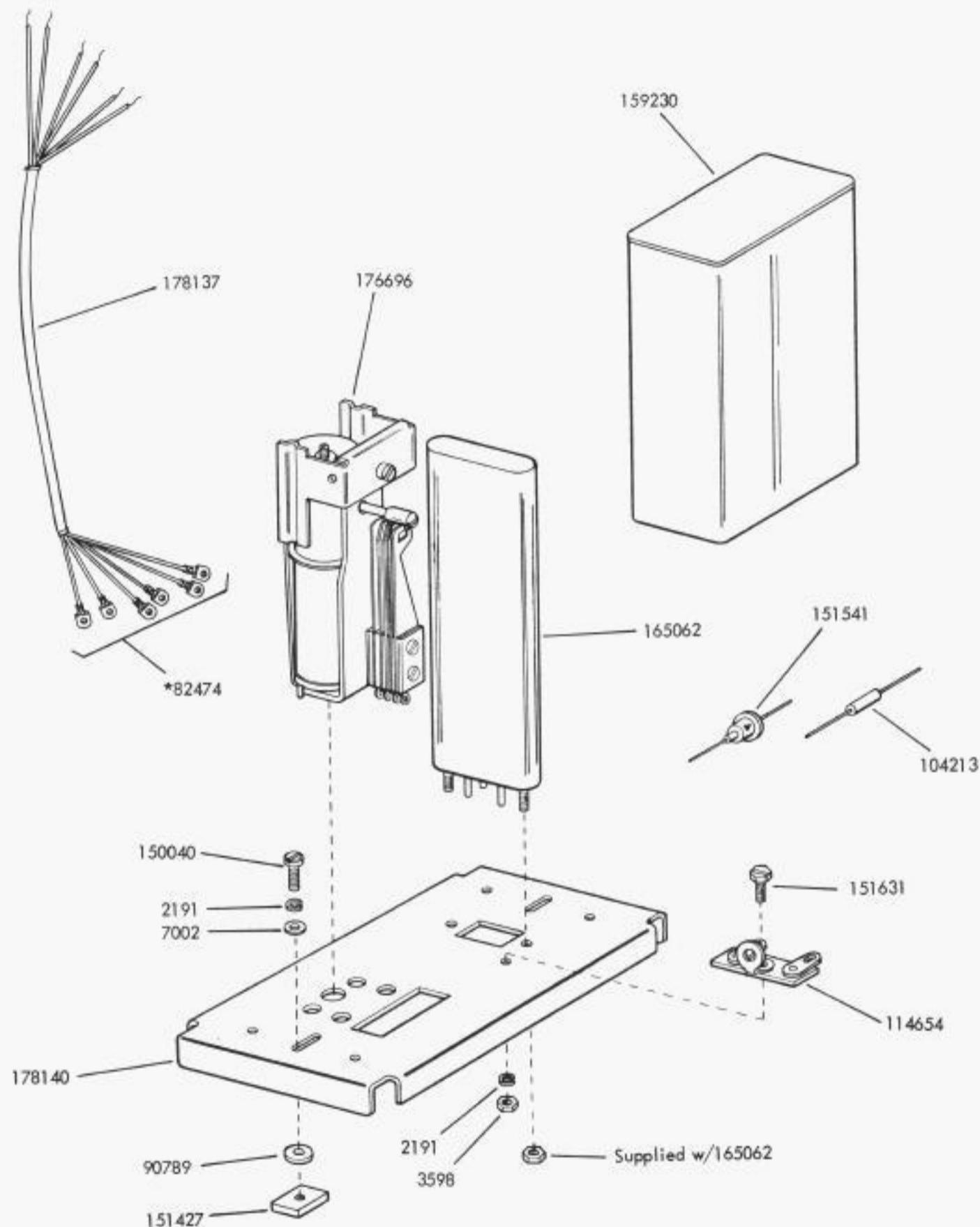


FIGURE 6-22. 146652 MODIFICATION KIT TO ADD WAVE SHAPING INDUCTOR



*Part of 178137 Cable Assembly

FIGURE 6-23. 178138 SLOW RELEASE RELAY ASSEMBLY (NON-CONTENTION)

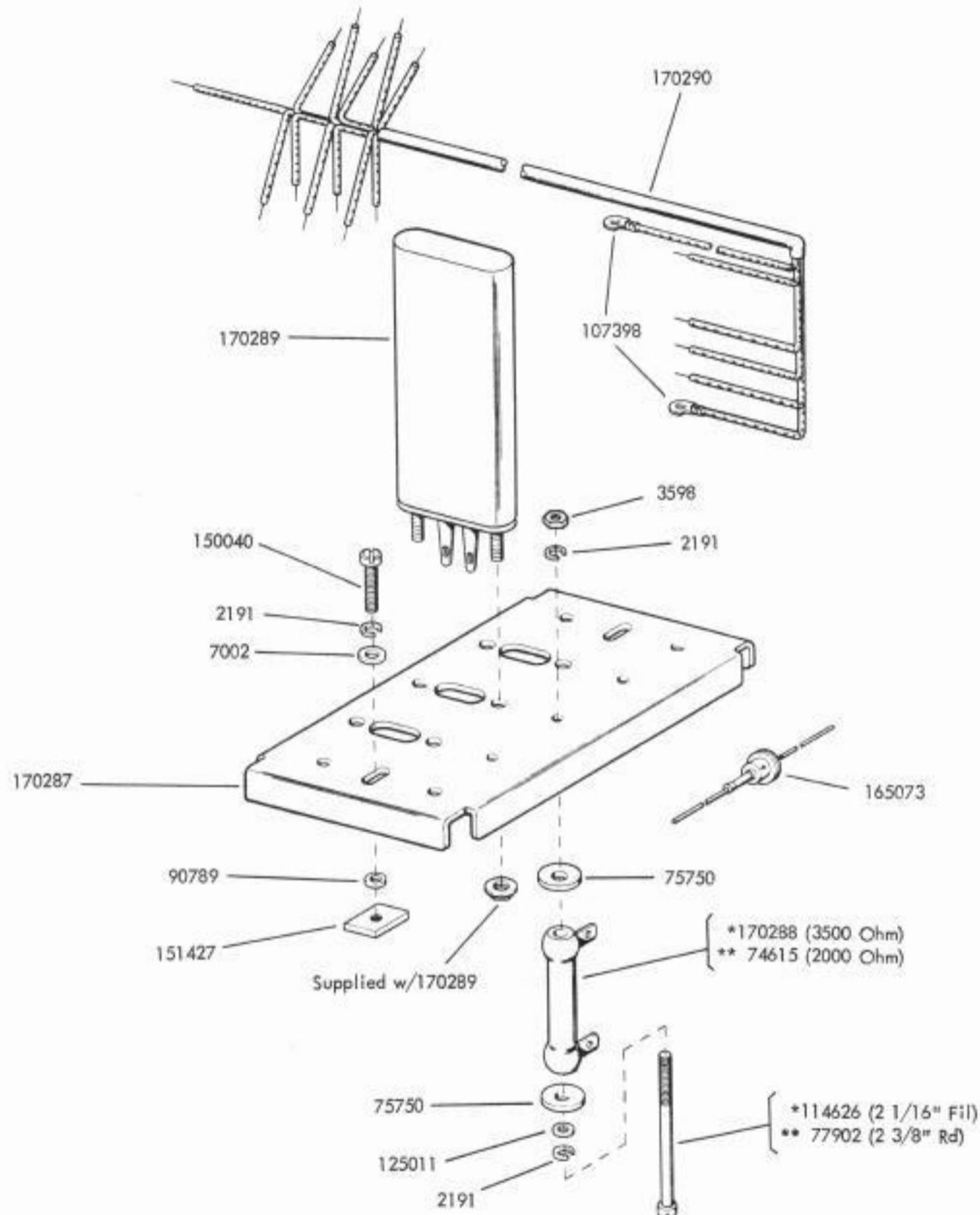


FIGURE 6-24. 170285 AND 173281 RESISTOR ASSEMBLIES

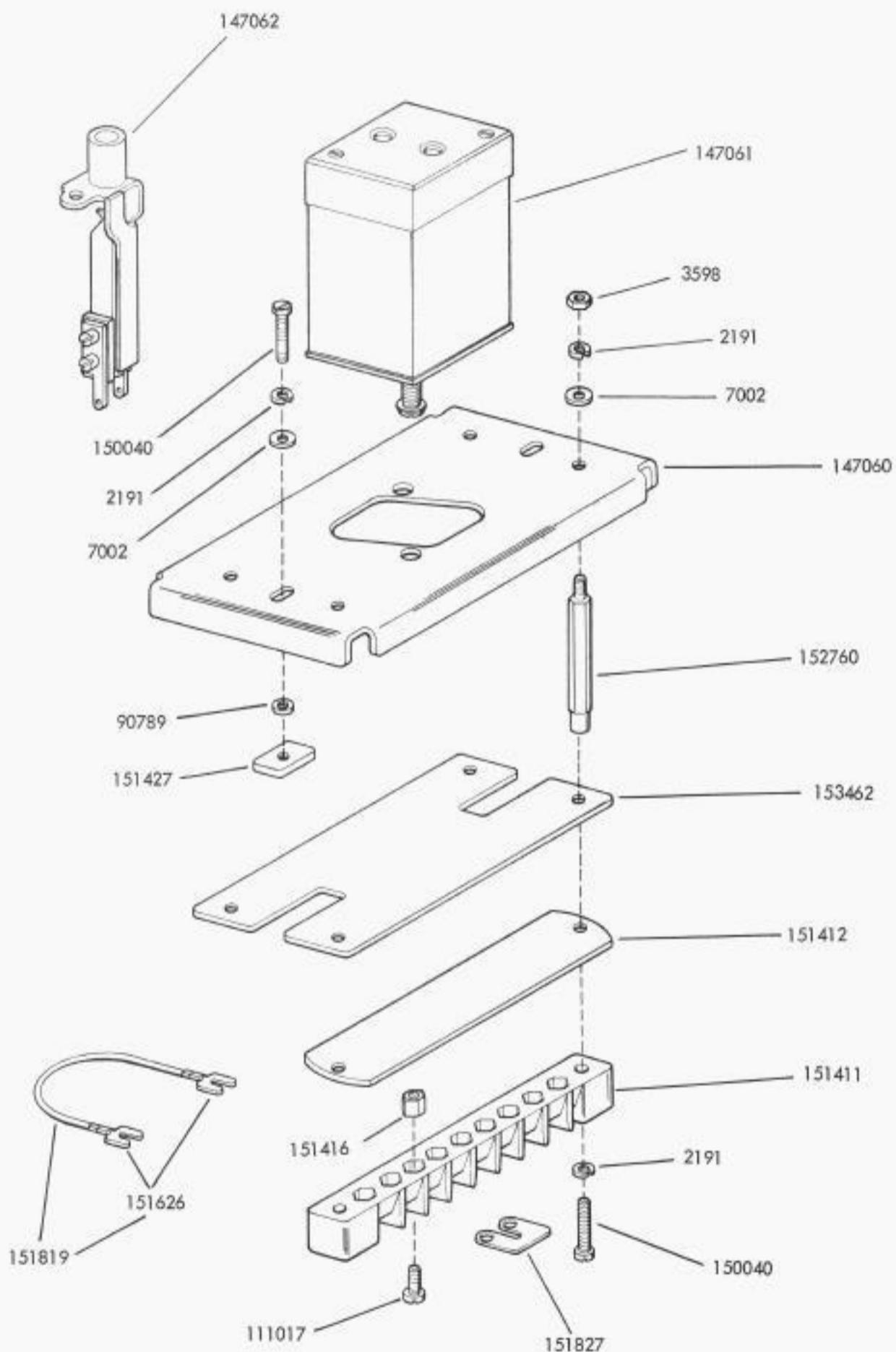


FIGURE 6-25. 147059 LINE JACK ASSEMBLY

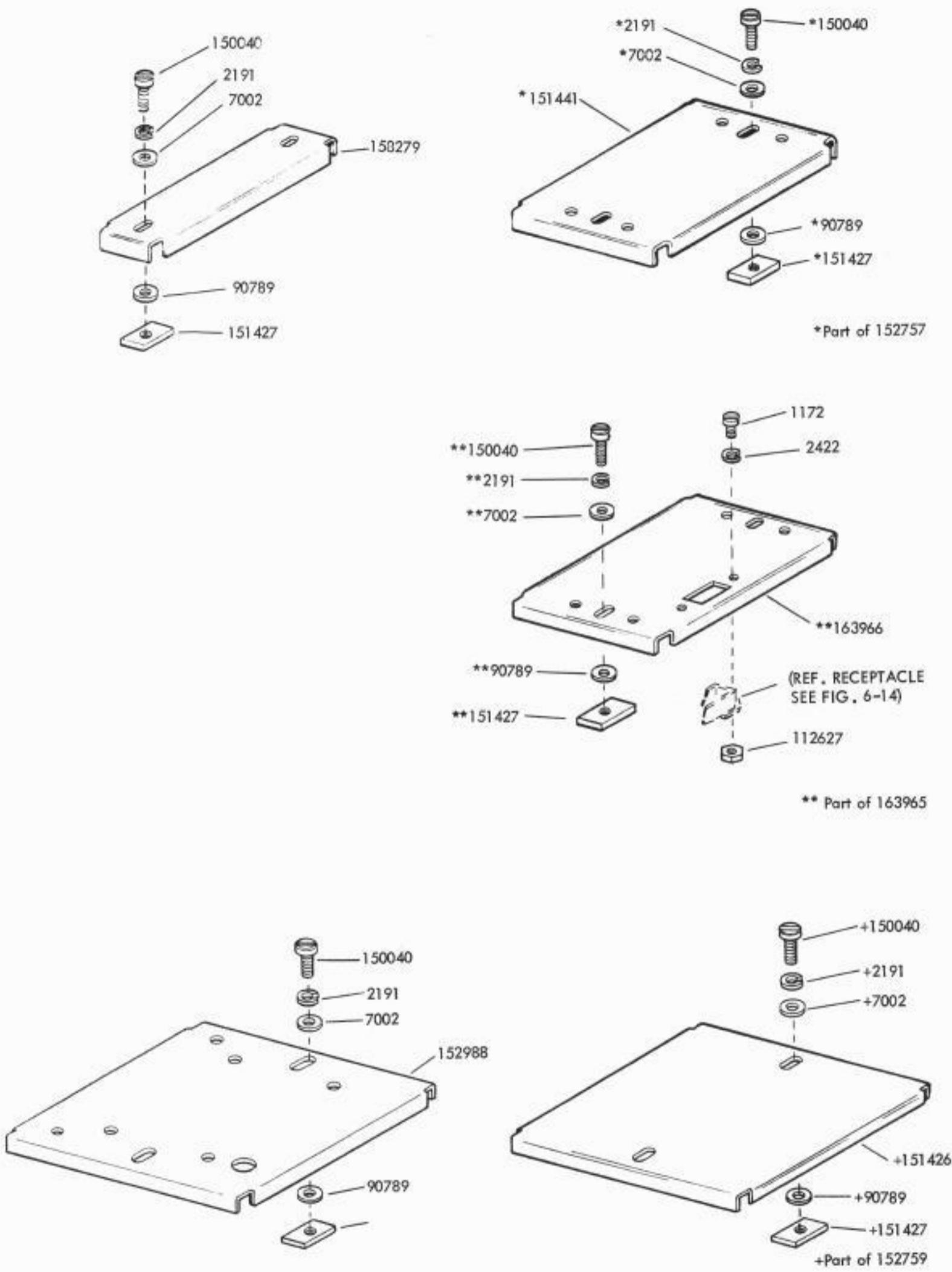


FIGURE 6-26. BLANK PLATE ASSEMBLIES

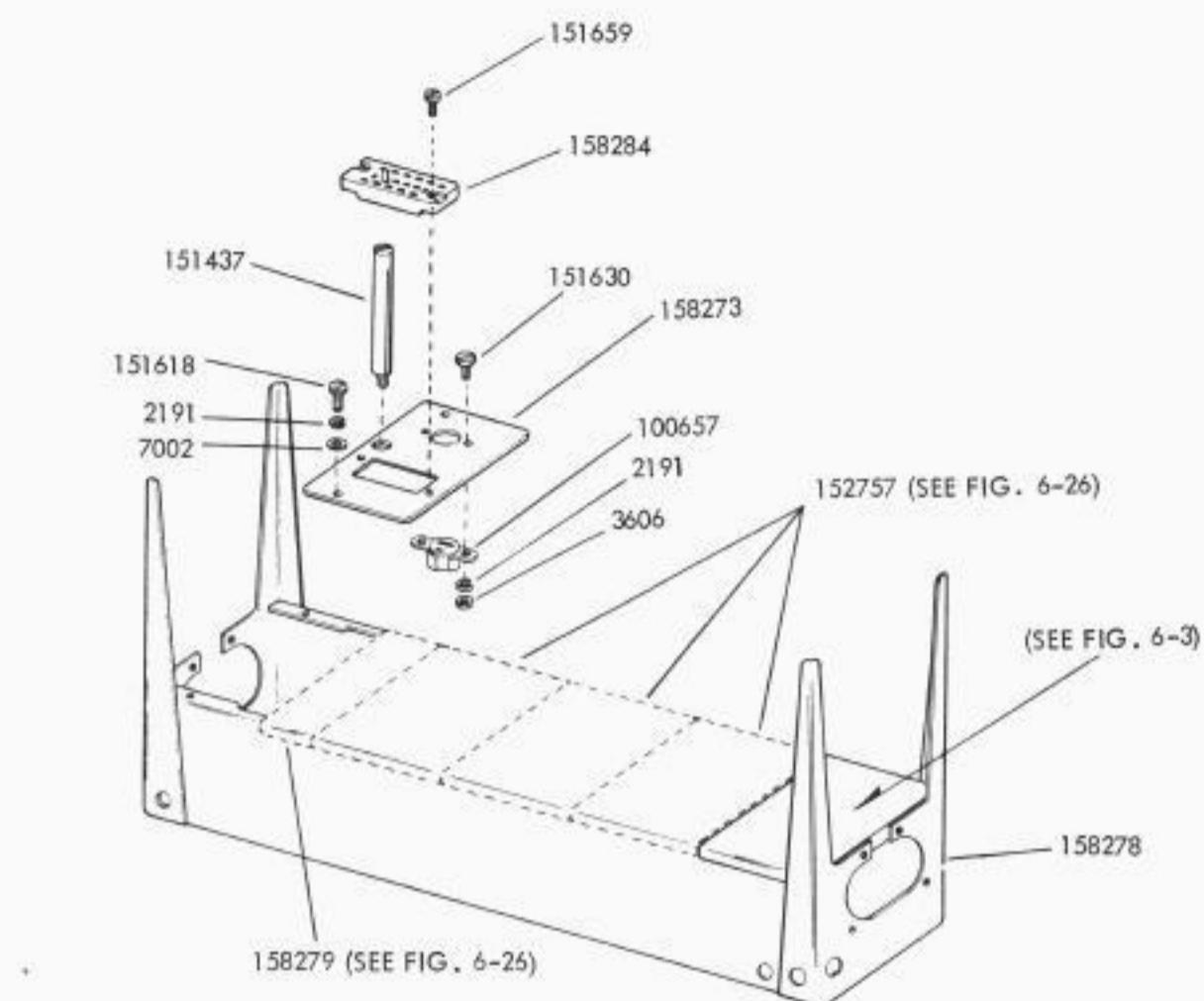


FIGURE 6-27. PECULIARITIES OF ELECTRICAL SERVICE UNIT

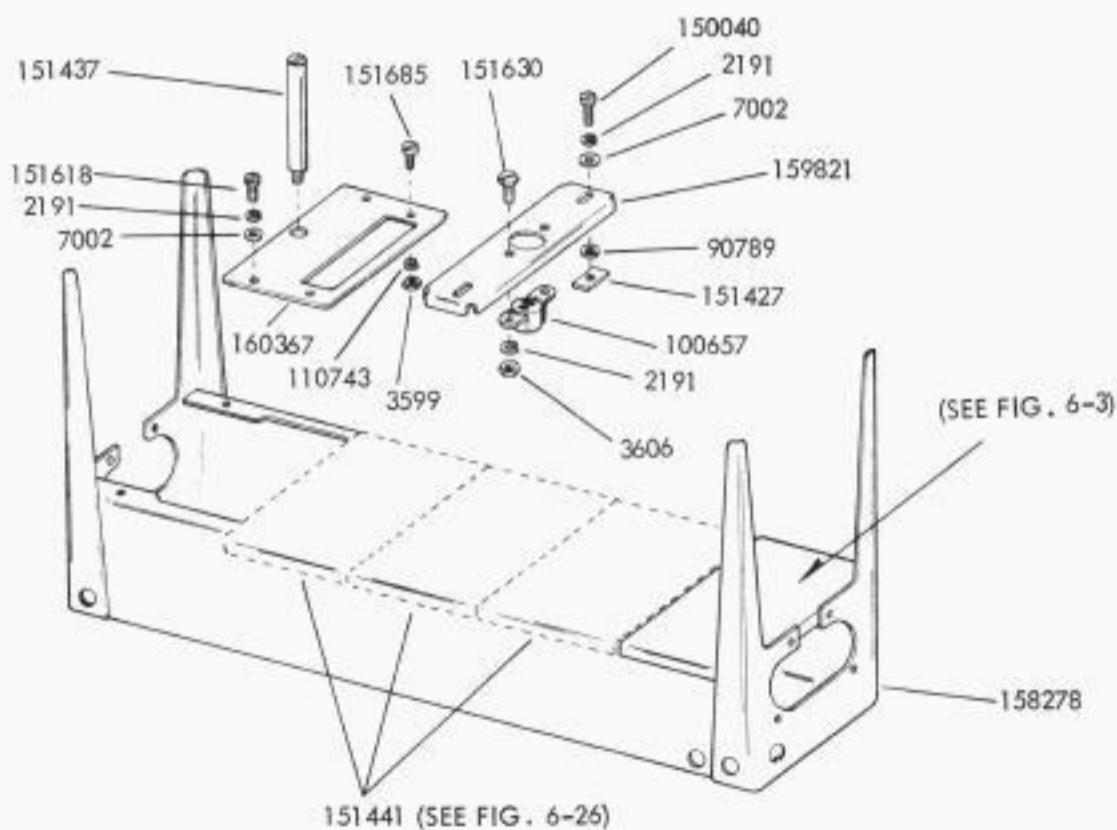


FIGURE 6-28. PECULIARITIES OF ELECTRICAL SERVICE UNIT

1169B

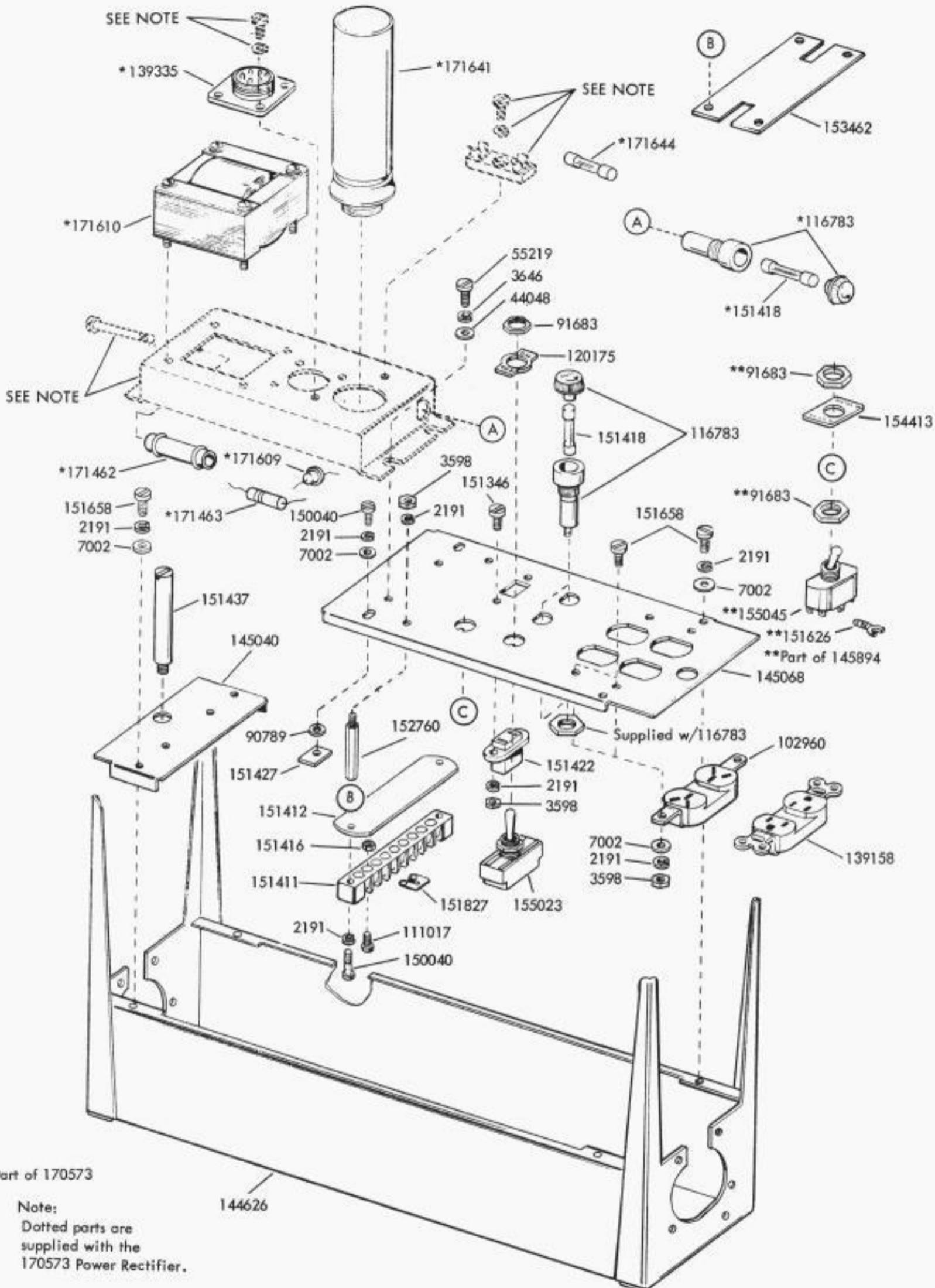


FIGURE 6-29. ELECTRICAL SERVICE UNIT

*Part of 170573

Note: Dotted parts are supplied with the 170573 Power Rectifier.

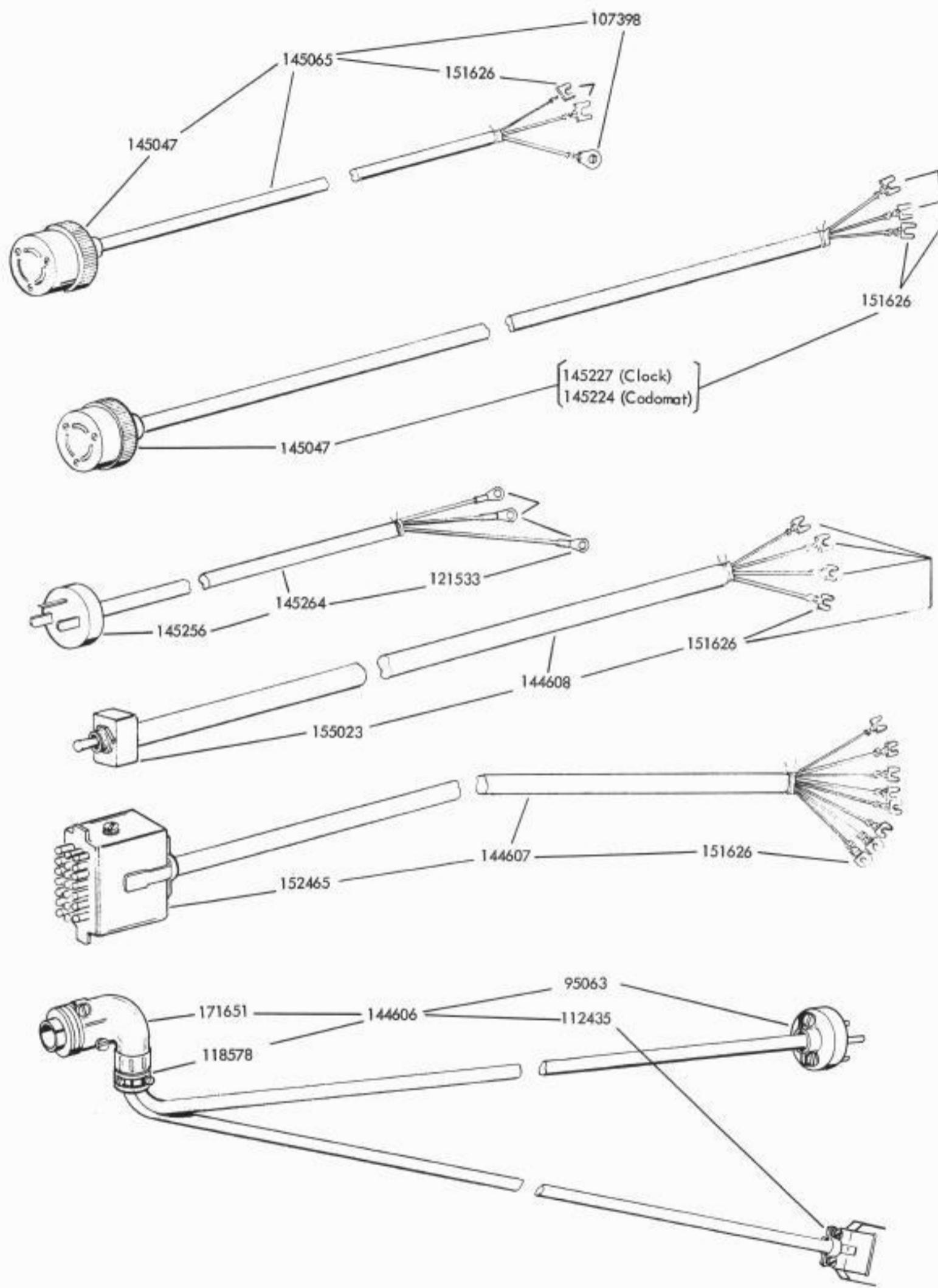


FIGURE 6-30. CABLE ASSEMBLIES

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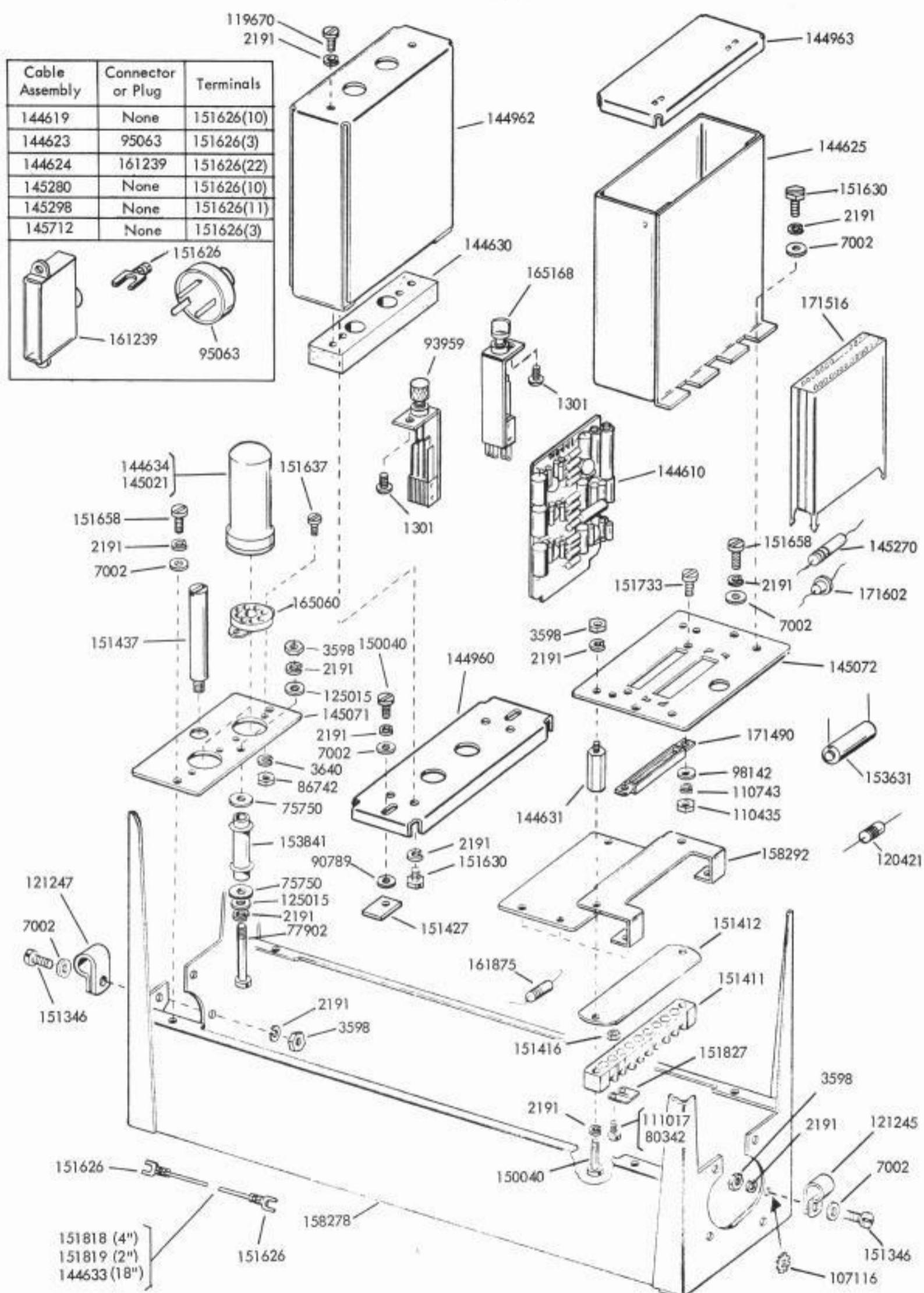


FIGURE 6-31. ELECTRICAL SERVICE UNIT

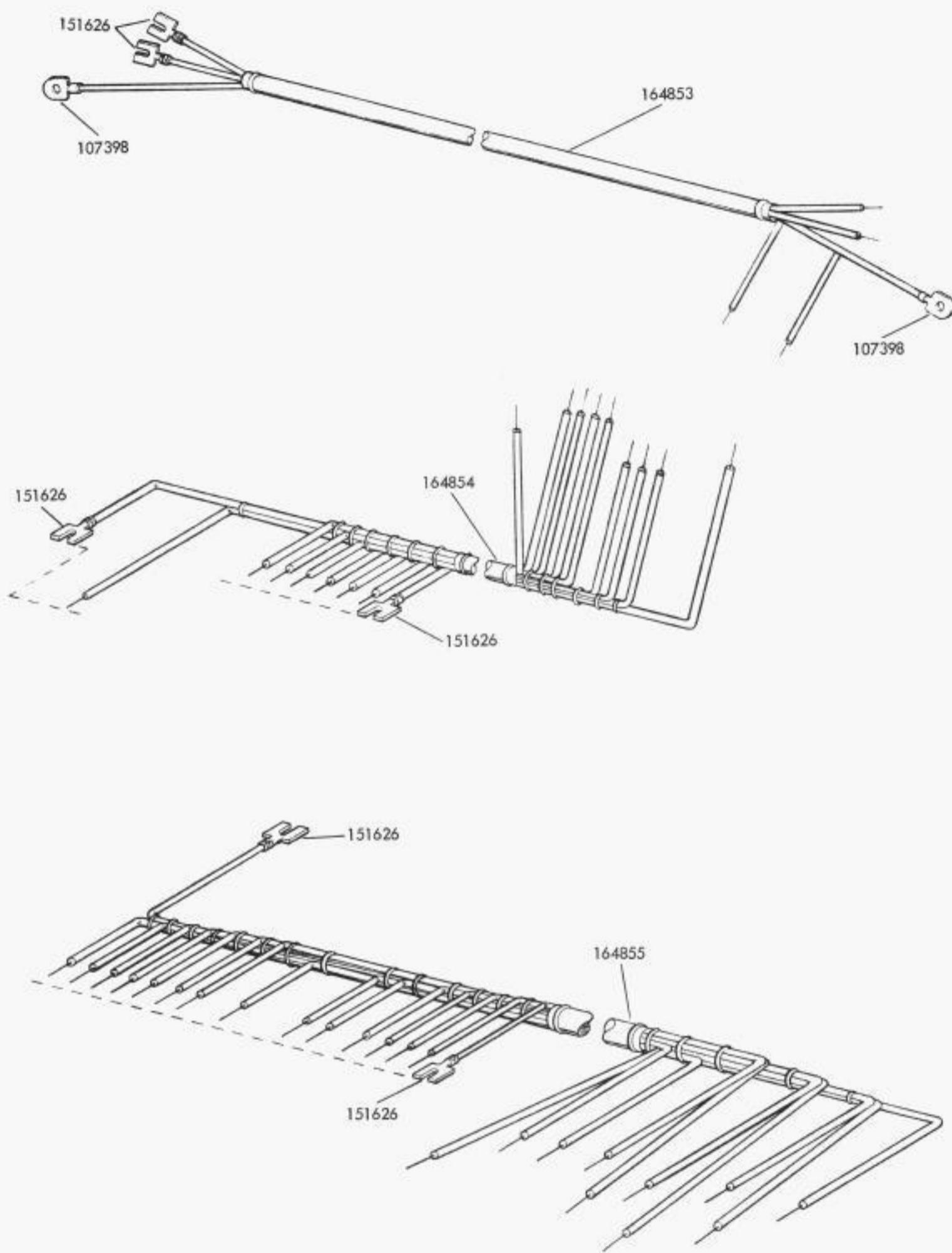


FIGURE 6-32. CABLE ASSEMBLIES

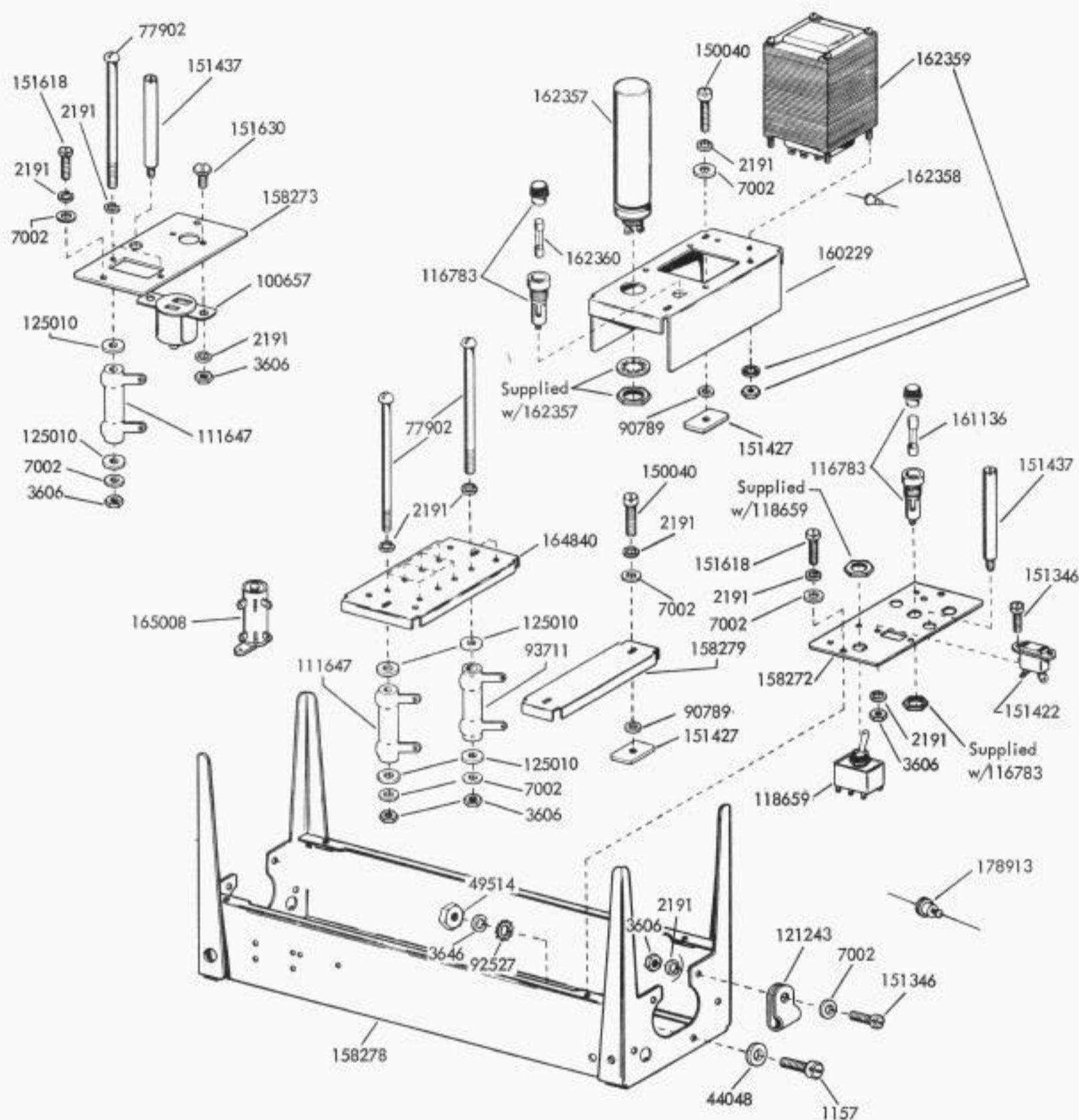
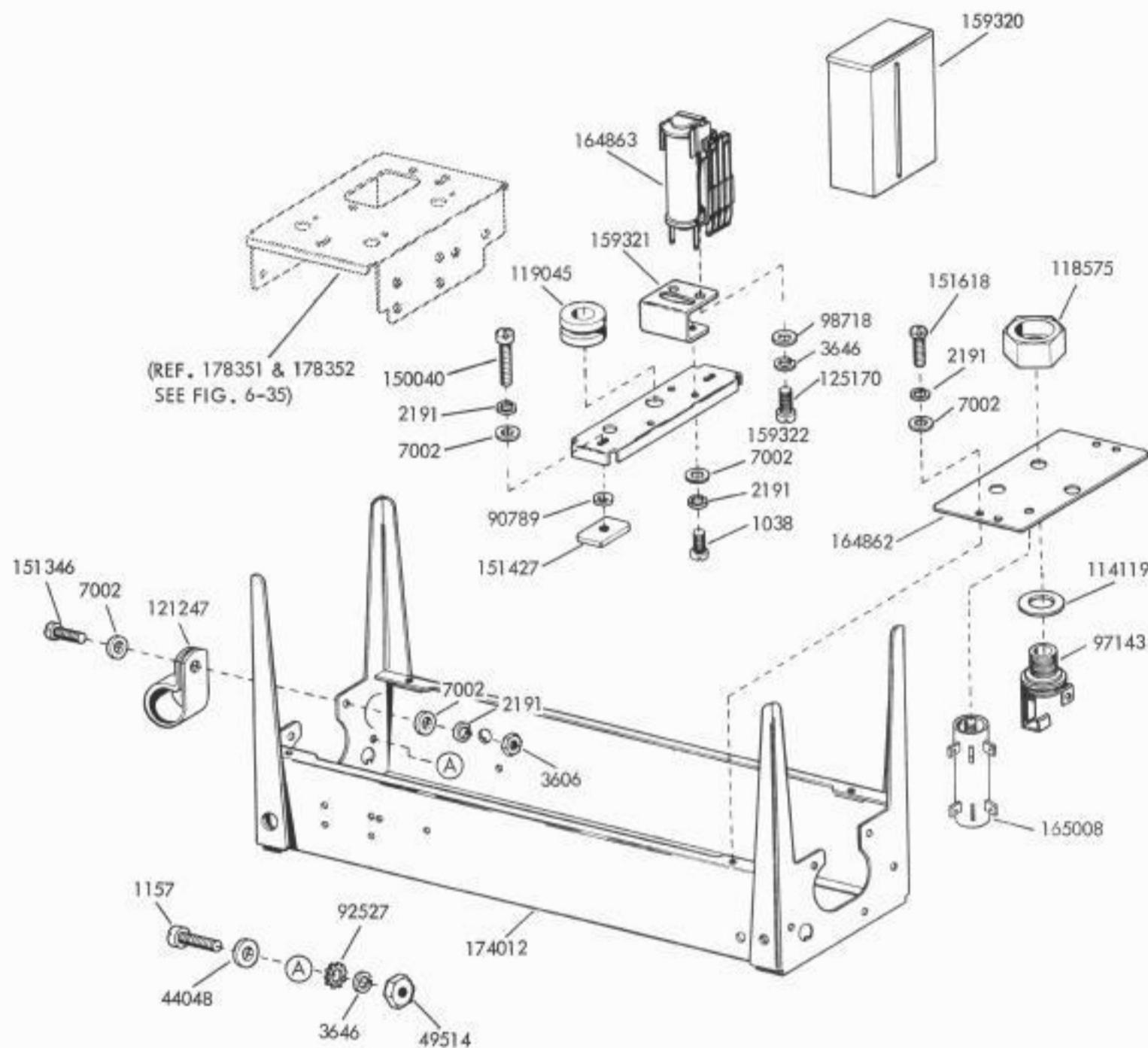


FIGURE 6-33. ELECTRICAL SERVICE UNIT



NOTE:

The 164868 also includes a 164867
Cable Assembly with 2 enclosed 107398
Terminals and 35 open ended 151626 Terminals.

FIGURE 6-34. 164868 MODIFICATION KIT TO PROVIDE AN LAAC231** WITH
AN AUXILIARY ELECTRICAL SERVICE UNIT (INCLUDES ALL
PARTS ON THIS FIGURE AND FIGURES 6-35 AND 6-36)

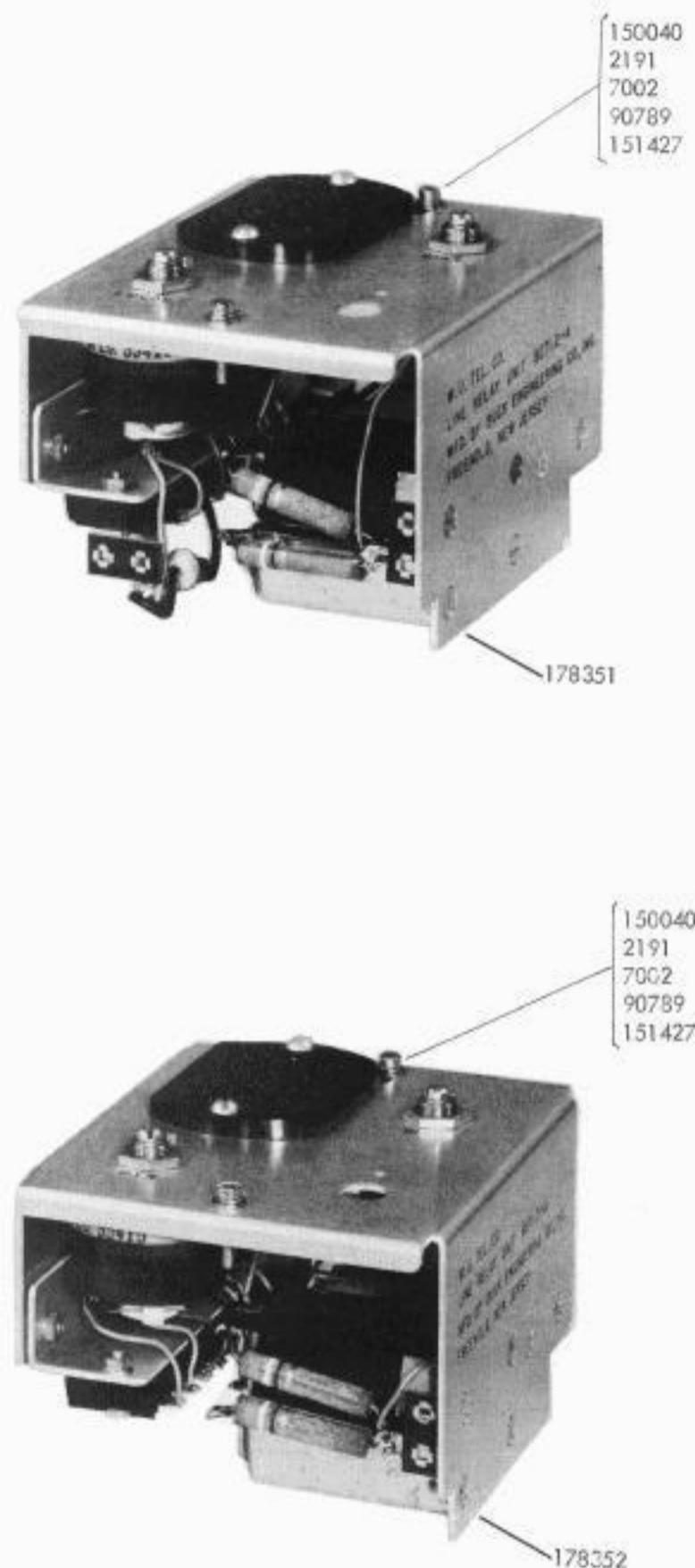


FIGURE 6-35. 164868 MODIFICATION KIT TO PROVIDE AN LAAC231** WITH AN AUXILIARY ELECTRICAL SERVICE UNIT (INCLUDES ALL PARTS ON THIS FIGURE AND FIGURES 6-34 AND 6-36)

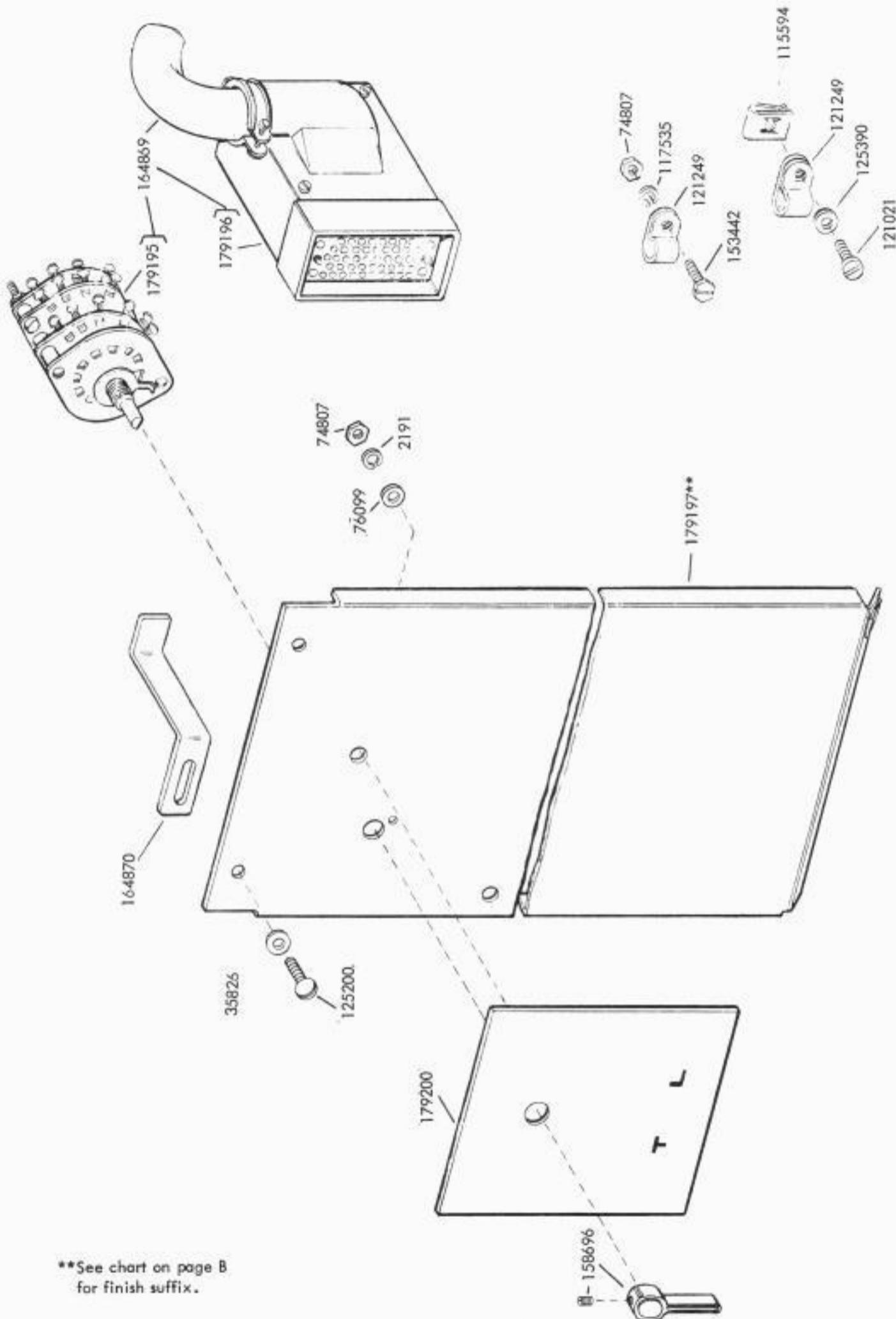
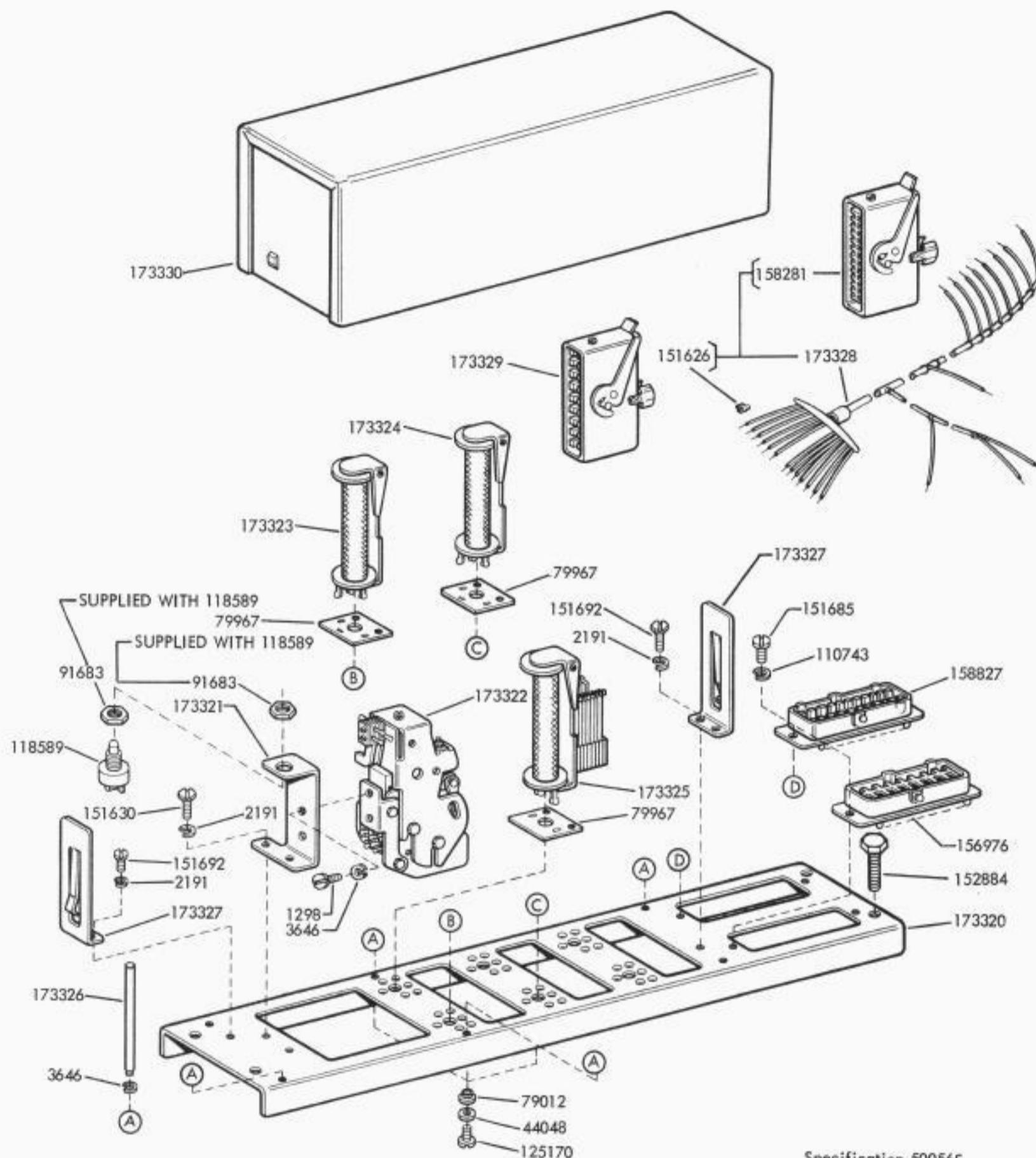


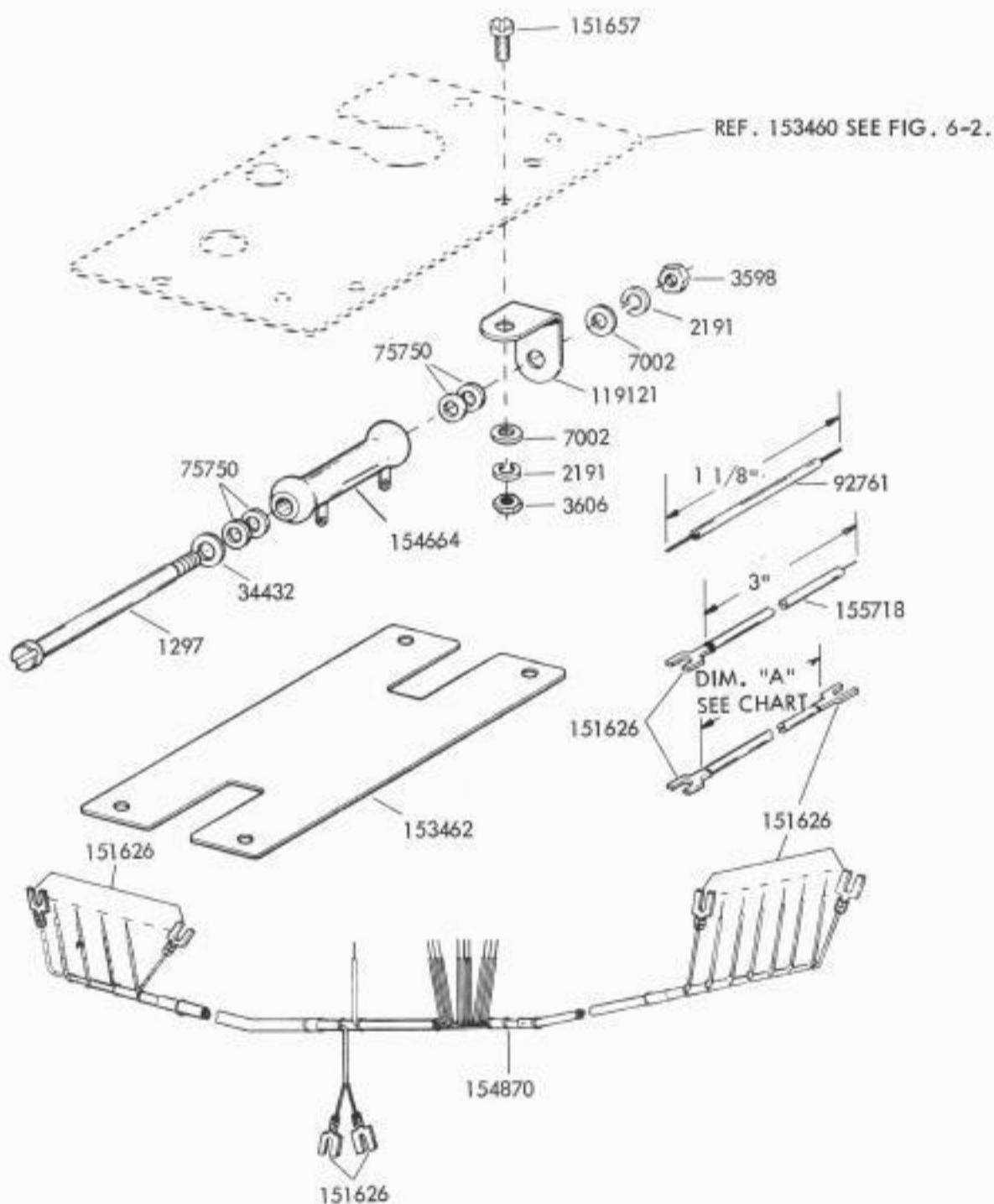
FIGURE 6-36. 164868 MODIFICATION KIT TO PROVIDE AN LAAC231** WITH AN AUXILIARY ELECTRICAL SERVICE UNIT (INCLUDES ALL PARTS ON THIS FIGURE AND FIGURES 6-34 AND 6-35)



Specification 500565

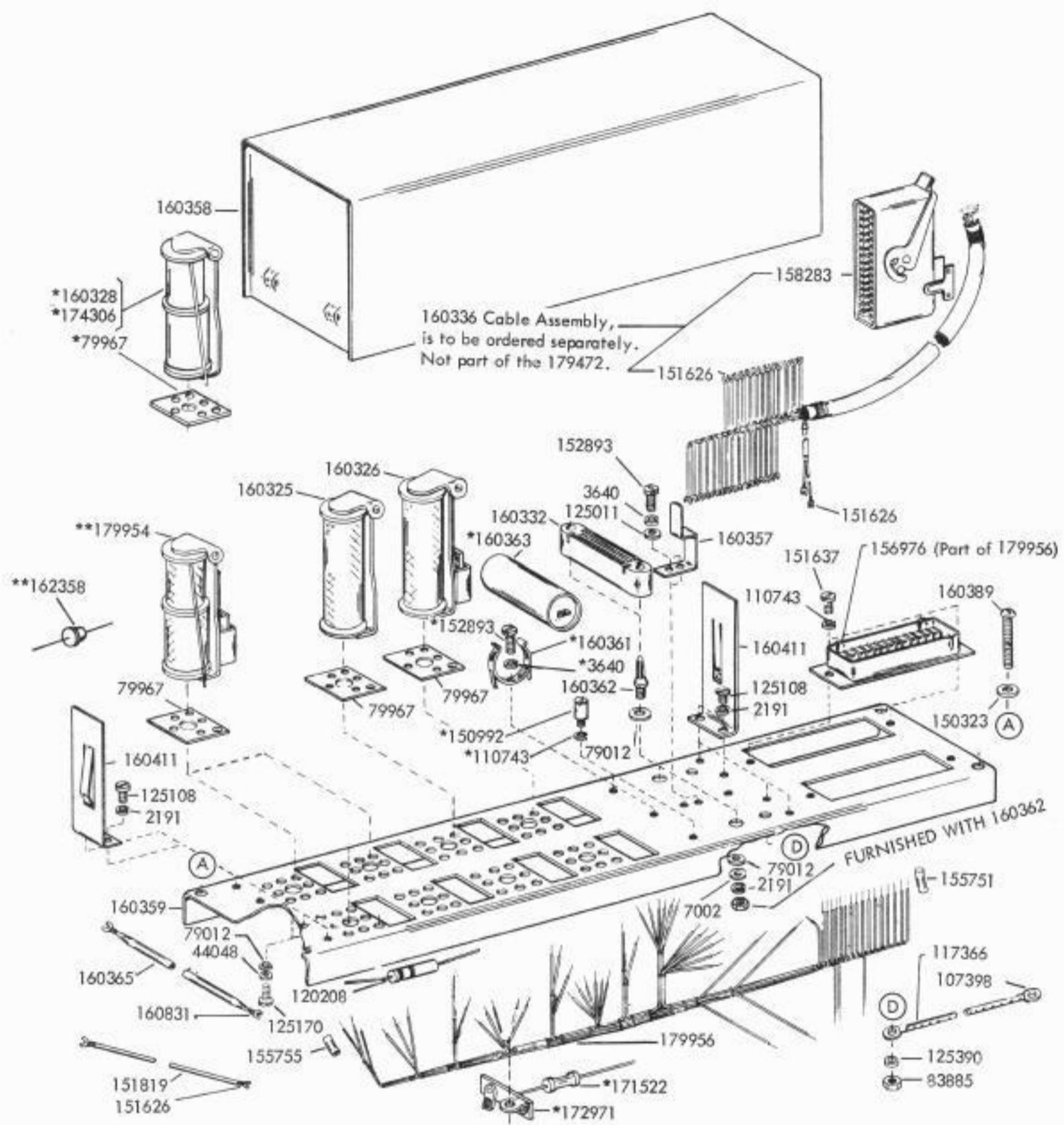
FIGURE 6-37. 162483 CALL DIRECTING RELAY UNIT

PART NUMBER	"A" DIMENSION	PARTS REQUIRED
151819	3"	151626 (2)
157231	8"	151626 (2)
157232	9 1/4"	151626 (2)



SPECIFICATION 57765

FIGURE 6-38. 154747 MODIFICATION KIT TO ADD CONTINUOUS SPACING



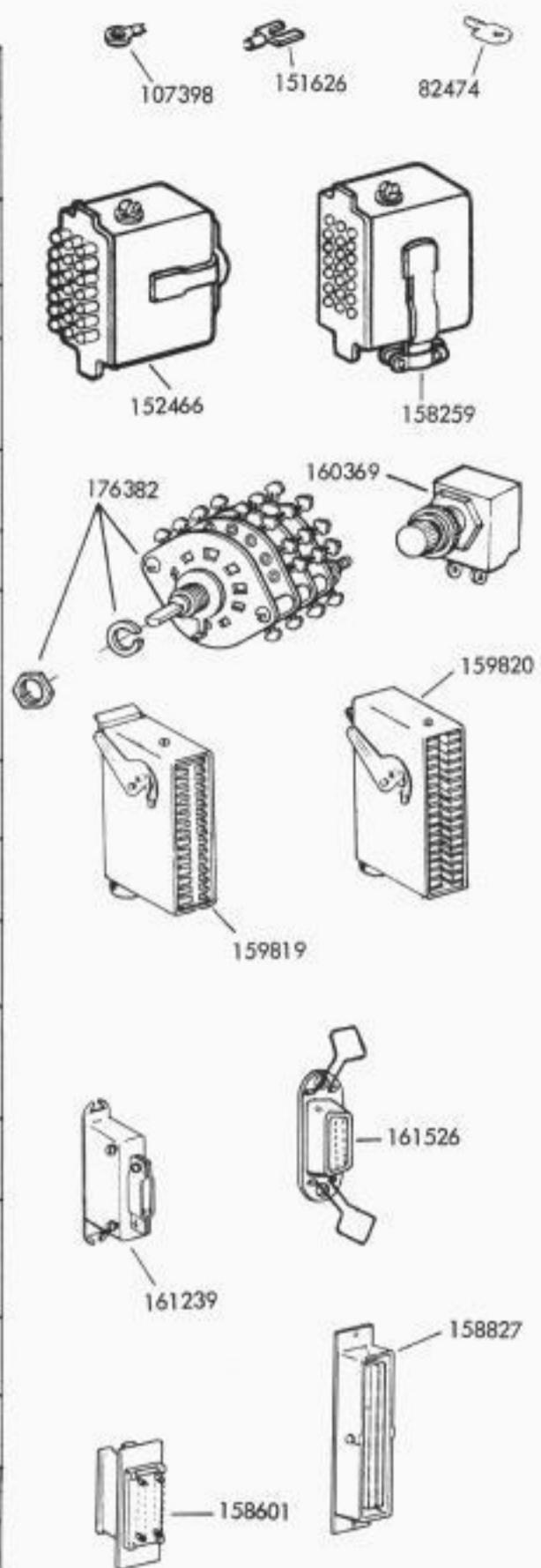
**Also part of 179953 Modification Kit to convert
early design 160334 Central Device to a 179472
SPECIFICATION 501525

*Peculiar to Early Design 160334 Modification Kit.
This feature no longer furnished.

SPECIFICATION 5887S

FIGURE 6-39. 179472 MODIFICATION KIT TO PROVIDE A TRANSMITTER CONTROL DEVICE

Units	Cable Assembly	Connectors		Terminals	Notes
		Receptacle	Plug		
LESU11	158282	159820	152466 (2) 159819	107398 (96)	
LESU13 LESU15	158264	158259	152466 (2)	107398 (1) 82474 (110)	
LESU21	160337	158601 (3)	152466 (2)	82474 (32)	Note #1
LESU22	160373 160378 160379	158827 159820	152466 (2) 159819	82474 (29) 82474 (21) 82474 (53)	
LESU25 LESU28	158264	158259	152466 (2)	107398 (1) 82474 (100)	
LESU29	162468	158259	152466 (2)	107398 (112)	
LESU32 LESU33 LESU35 LESU36 LESU37	162856 162856 158264 158264 162896	158259	152466 (2)	107398 (1) 82474 (110)	
LESU40	164085	159820	152466 (2) 159819	151626 (11) 107398 (113)	
LESU44	164237	158259 161526	152466 (2)	107398 (2) 82474 (108)	
LESU47	170286	158259	152466 (2)	107398 (1) 82474 (96)	
LESU49	164951	158259	152466 (2)	107398 (2) 151626 (11) 82474 (57)	
LESU53	170286	158259	152466 (2)	107398 (1) 82474 (96)	
LESU56 LESU57 LESU60	145215				Note #2 Note #3 Note #4
LESU61	178781	161239	152466 (2)	107398 (3) 82474 (97)	
LESU66	176680	152465	152466	107398 (2) 82474 (106)	
LESU68	176381	159820	159819 152466 (2)	107398 (2) 151626 (194)	
LESU69	176388		159819 152466 (2)	107398 (2) 151626 (137)	
LESU70	176348 158264	158259	152466 (2)	107398 (1) 82474 (110)	
LESU79	179627 179429				
LESU82 LESU83	165689	158259	152466 (2)	107398 (1) 82474 (110)	
LESU94 LESU98	170286 162896	158259	152466 (2)	107398 (1) 82474 (96)	



Numbers in () parenthesis indicate quantity

Note #1: This cable assembly also includes:
2 - 160384 Brackets, 4 - 98726 Screws
4 - 61085 Lock Washers

Note #2: Cables shown on Figure 6-30.
Note #3: Cables shown on Figure 6-31.
Note #4: Cables shown on Figure 6-32.

FIGURE 6-40. ELECTRICAL SERVICE UNIT CABLING

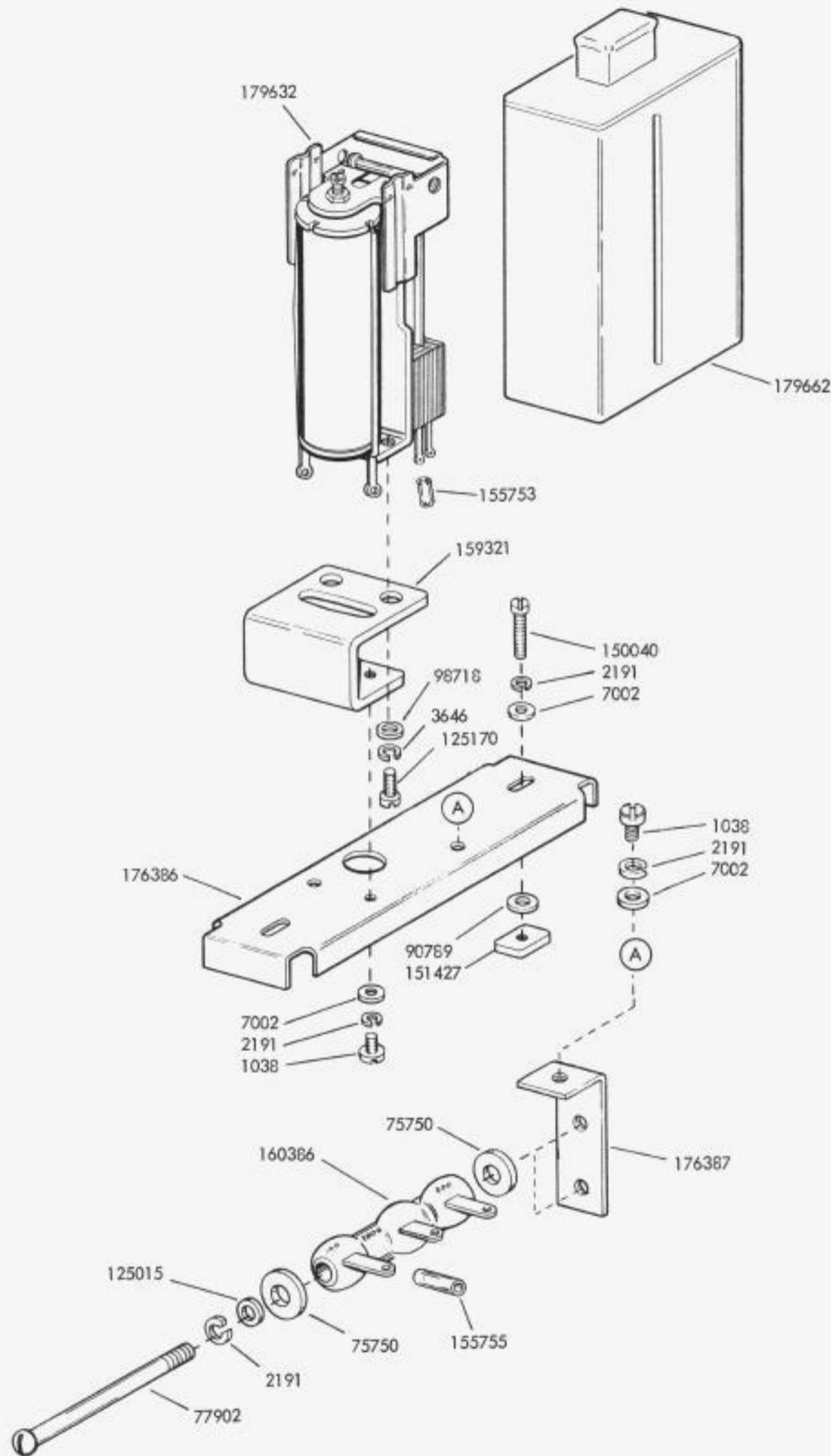


FIGURE 6-41. QUICK ACTING RELAY (10 MS) MECHANISM

NUMERICAL INDEX - SECTION 6

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
169M	Coil, Magnet 6-16	76983	Screw (4-40 x 1-1/4 Fil) 6-16	118575	Nut, Insulating (3/8-32 Hex) 6-32
247M	Coil, Magnet 6-6	77902	Screw (6-40 x 2-3/8 Rd) 6-5,6-11, 6-13,6-16,6-18,6-20,6-23,6-29, 6-31,6-39	118578	Clamp, Cable 6-28
252M	Coil, Magnet 6-6	79012	Washer, Insulating 6-10,6-12, 6-35,6-37	118589	Switch, Push 6-35
1020	Screw (6-40 x 1/4 Hex) 6-21	79967	Insulator 6-10,6-12,6-35,6-37	118659	Switch, Toggle 6-4,6-31
1028	Screw (4-40 x 7/32 Fil) 6-5,6-13, 6-16	80342	Screw (6-40 x 3/8 Hex) 6-29	118720	Resistor (1 Meg. Ohm) 6-19
1038	Screw (6-40 x 9/32 Fil) 6-5,6-11, 6-32,6-39	80612	Nut (8-32 Hex) 6-15	118726	Resistor (820 Ohm) 6-10
1093	Screw (8-32 x 7/16 Fil) 6-6	80854	Screw (6-40 x 1-7/16 Fil) 6-4, 6-6	119045	Grommet, Rubber 6-4,6-18,6-20, 6-32
1157	Screw (8-32 x 1/2 Fil) 6-2,6-31, 6-32	81836	Washer, Fiber 6-15	119121	Bracket 6-36
1172	Screw (2-56 x 5/16 Fil) 6-25	82474	Terminal 6-15,6-22,6-38	119218	Resistor (350 Ohm) 6-15
1248	Screw (6-40 x 7/16 Flat) 6-5	82516	Spring 6-5	119670	Screw (6-32 x 1/2 Fil) 6-29
1263	Screw (6-32 x 1/4 Fil) 6-21	82870	Resistor (6300 Ohm) 6-13	120121	Resistor (62,000 Ohm) 6-19
1297	Screw (6-40 x 2-7/16 Rd) 6-36	83885	Nut (6-32 Hex) 6-37	120175	Plate, Off-On 6-27
1298	Screw (8-32 x 1/4 Fil) 6-35	86742	Nut (4-40 Hex) 6-29	120195	Rectifier 6-9
1301	Screw (6-32 x 3/8 Rd) 6-29	89548	Spring, Contact 6-5	120205	Shield, Tube 6-19
2034	Washer, Flat 6-6	90789	Washer, Flat 6-5,6-7 to 6-9,6-11, 6-12,6-16 to 6-18,6-20,6-22 to 6-27,6-29,6-31,6-32,6-33,6-39	121021	Resistor (22 Ohm) 6-37
2191	Washer, Lock 6-2 to 6-13,6-15 to 6-27,6-29,6-31,6-32 to 6-37,6-39	90951	Washer, Lock 6-6	121125	Resistor (100 Ohm) 6-29
2201	Nut (5/16-32 Hex) 6-6	91683	Nut (15/32-32 Hex) 6-4,6-27,6-35	121243	Screw (8-32 x 1/2 F.I.) 6-34
2422	Washer, Lock 6-25	91721	Screw (10-32 x 3-3/4 Fil) 6-15	121245	Washer, Spring 6-6
2449	Washer, Lock 6-16	92260	Washer, Lock 6-9	121245	Clamp, Cable (3/16 I.D.) 6-17, 6-31
2658	Nut (6-32 Hex) 6-9	92527	Washer, Star 6-2,6-31,6-32	121246	Clamp, Cable (5/16 I.D.) 6-2,6-6, 6-29
2669	Washer, Lock 6-15	92761	Lead (1-1/2") Black 6-36	121247	Clamp, Cable (3/8 I.D.) 6-20
3438	Washer, Flat 6-13	92856	Resistor (1500 Ohm) 6-3,6-15	121247	Clamp, Cable (7/16 I.D.) 6-2,6-29, 6-32
3595	Nut (1/4-32 Hex) 6-16	93073	Modification Kit 6-15	121249	Clamp, Cable (5/8 I.D.) 6-2,6-3, 6-34
3598	Nut (6-40 Hex) 6-3 to 6-6,6-13, 6-15 to 6-20,6-22 to 6-24,6-27, 6-29,6-36	93711	Resistor (200 Ohm) 6-31	121250	Clamp, Cable 6-2
3599	Nut (4-40 Hex) 6-20,6-26	93959	Key W/Screw (6-32) 6-29	121533	Terminal 6-28
3606	Nut (6-40 Hex) 6-2,6-3,6-15, 6-26,6-31,6-32,6-36	95009	Switch, Push Button 6-11	123146	Socket (6 Slot) 6-18
3640	Washer, Lock 6-6,6-10,6-29,6-37	95063	Connector, Plug (3 Pt) 6-28,6-29	125010	Washer, Insulating 6-31
3646	Washer, Lock 6-6,6-11,6-27,6-31, 6-32,6-35,6-39	97143	Jack 6-32	125011	Washer, Flat 6-13,6-16,6-23,6-37
3870	Spring 6-6	98142	Washer, Flat 6-29	125015	Washer, Flat 6-4,6-5,6-9,6-11,6-16, 6-29,6-39
3899	Spacer 6-16	98718	Washer, Flat 6-11,6-32,6-39	125108	Screw (6-32 x 3/8 Fil) 6-37
5816	Washer, Fiber 6-6	98726	Screw (3-48 x 1/4 Fil) 6-38	125112	Screw (2-56 x 1/8 Fil) 6-16
6827	Block, Connecting 6-5	100657	Connector, Receptacle (2 Pt) 6-26, 6-31	125170	Screw (8-32 x 5/16 Fil) 6-10 to 6-12,6-32,6-35,6-37,6-39
7002	Washer, Flat 6-2 to 6-13,6-15 to 6-20,6-22 to 6-27,6-29,6-31,6-32, 6-33,6-36,6-37,6-39	100832	Screw, Drive 6-2,6-14	125183	Screw (6-32 x 5/16 Fil) 6-3
7603	Spring 6-6	101944	Resistor (4000 Ohm) 6-5	125186	Screw (8-32 x 3/4 Fil) 6-2
7959	Bracket, Magnet 6-16	102690	Connector, Receptacle (Duplex 3 Pt) 6-27	125200	Screw (10-32 x 1/2 Rd) 6-34
8262	Knob 6-13	104213	Resistor (300 Ohm) 6-22	125306	Stop, Magnet Plunger 6-16
34432	Washer, Flat 6-36	104807	Washer, Flat 6-14	125390	Washer, Flat 6-6,6-34,6-37
35826	Washer, Flat 6-34	107116	Washer, Star 6-29	129098	Screw (6-40 x 11/32 Flat) 6-21
44048	Washer, Flat 6-6,6-10,6-12,6-27, 6-31,6-32,6-35,6-37	107398	Terminal 6-3,6-20,6-23,6-28, 6-30,6-32,6-37,6-38	129916	Capacitor (0.1 Mfd) 6-19
49514	Nut (8-32 Hex) 6-31,6-32	110434	Screw (4-40 x 3/16 Fil) 6-10	137602	Resistor (470 Ohm) 6-10
55219	Screw (8-32 x 3/8 Fil) 6-15,6-27	110435	Nut (4-40 Hex) 6-6,6-29	138191	Screw (3-48 x 1 Rd) 6-5
61085	Washer, Lock 6-38	110743	Washer, Lock 6-13,6-14,6-16,6-19, 6-20,6-26,6-29,6-35,6-37	139158	Connector, Receptacle (3 Pt) 6-27
71047	Washer, Flat 6-16	111017	Screw (6-40 x 1/4 Fil) 6-3,6-4, 6-19,6-24,6-27,6-29	139335	Connector, Plug (6 Pt) 6-27
71155	Screw (6-32 x 1-1/4 Flat) 6-9	111647	Resistor (1000 Ohm) 6-31	139564	Nut (3/8-32 Hex) 6-11
71646	Nut (6-32 Hex) 6-9	112435	Socket 6-28	139565	Washer, Flat 6-11
74614	Resistor (2600 Ohm) 6-5	112626	Nut (10-32 Hex) 6-15,6-23	139692	Resistor (2000 Ohm) 6-5
74615	Resistor (2000 Ohm) 6-5,6-23	112627	Nut (2-56 Hex) 6-25	139777	Screw (3-56 x 1/4 Flat) 6-13
74807	Nut (10-32 Hex) 6-34	114119	Washer, Insulating 6-32	144606	Cable Assembly 6-28
74821	Resistor (2810 Ohm) 6-5,6-18,6-20	114626	Screw (6-40 x 2-1/16 Fil) 6-23	144607	Cable Assembly 6-28
74882	Spring 6-6	114654	Strip, Terminal 6-10,6-22	144608	Cable Assembly 6-28
74980	Screw (6-40 x 1-13/16 Rd) 6-15	115537	Screw (6-32 x 2-1/4 Rd) 6-15	144610	Card, Circuit (Detector) 6-29
75750	Washer, Insulating 6-4,6-5,6-11, 6-13,6-16,6-18,6-20,6-23,6-29, 6-36,6-39	115594	Nut, Speed (8-32) 6-15,6-34	144616	Plate, Relay 6-5
76099	Washer, Flat 6-34	116783	Holder, Fuse 6-4,6-7,6-8,6-27, 6-31	144617	Plate, Relay 6-5
76461	Washer, Flat 6-18,6-20	117366	Jumper (3-1/2" Green) 6-37	144618	Cable Assembly 6-5
		117535	Washer, Lock 6-34	144619	Cable Assembly 6-5,6-29
		118196	Resistor (39,000 Ohm) 6-19	144620	Mounting Assembly 6-5
				144621	Mounting Assembly 6-5
				144623	Cable Assembly 6-29
				144624	Cable Assembly, L 6-29
				144625	Guard 6-29
				144626	Container 6-27

NUMERICAL INDEX - SECTION 6 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
144630	Block, Mounting 6-29	151432	Armature 6-6	153456	Bracket 6-3
144631	Post (6-40) 6-29	151437	Stud (1/4-20) 6-3,6-4,6-26,6-27,6-29,6-31	153457	Strap, Terminal 6-3
144633	Jumper (18" Black) 6-29	151440	Stud (4-40) 6-6	153460	Plate, Cover 6-3
144634	Relay (276H) 6-29	151441	Plate, Blank 6-25,6-26	153462	Plate 6-4,6-24,6-27,6-36
144960	Plate, Mounting 6-29	151541	Shaft W/Fork 6-22	153464	Block, Terminal 6-5
144962	Bracket, Mounting 6-29	151616	Screw, Self-Tapping (#2) 6-2	153475	Cable Assembly 6-5
144963	Cover W/Clips 6-29	151618	Screw (6-40 x 7/16 Fil) 6-3,6-4,6-26,6-31,6-32	153476	Cable Assembly 6-13
145021	Relay (276A) 6-29	151626	Terminal 6-2,6-3,6-5 to 6-13,6-15 to 6-20,6-24,6-27 to 6-30,6-32,6-35 to 6-38	153477	Cable Assembly 6-7,6-8,6-9
145040	Plate, Mounting 6-27	151630	Screw (6-40 x 1/4 Hex) 6-6,6-18,6-20,6-26,6-29,6-31,6-35	153478	Cable Assembly 6-6
145047	Connector, Receptacle (3 Pt) 6-28	151631	Screw (6-40 x 5/16 Hex) 6-16,6-17,6-20,6-22	153537	Screw (6-40 x 9/32 Hex) 6-10
145065	Cable Assembly 6-28	151632	Screw (6-40 x 3/8 Hex) 6-6	153631	Network, Spark Suppression 6-29
145068	Plate, Mounting 6-27	151637	Screw (4-40 x 1/4 Fil) 6-13,6-29,6-37	153799	Screw (4-40 x 21/64 Hex) 6-14
145071	Plate, Mounting 6-29	151657	Screw (6-40 x 1/4 Fil) 6-3,6-5,6-13,6-15,6-16,6-20,6-36	153841	Screw (6-40 x 9/16 Hex) 6-29
145072	Plate, Mounting 6-29	151658	Screw (6-40 x 5/16 Fil) 6-27,6-29	154337	Cover 6-6
145215	Cable Assembly, CC 6-38	151659	Screw (6-40 x 1/2 Fil) 6-5,6-26	154395	Plunger 6-16
145224	Cable Assembly 6-28	151685	Screw (4-40 x 5/16 Fil) 6-19,6-26,6-35	154413	Plate, Switch 6-27
145227	Cable Assembly 6-28	151692	Screw (6-40 x 3/16 Fil) 6-5,6-18,6-35	154444	Bracket 6-14
145256	Connector, Plug (3 Pt) 6-28	151722	Screw (6-40 x 3/16 Hex) 6-15,6-18,6-20	154449	Shaft 6-14
145264	Cable Assembly 6-28	151733	Screw (4-40 x 9/16 Fil) 6-29	154459	Fork 6-14
145270	Capacitor (1 Mfd) 6-29	151808	Relay 6-3,6-15	154632	Block, Terminal 6-16
145280	Cable Assembly 6-29	151814	Bracket 6-3,6-15	154636	Plate 6-16
145298	Cable Assembly 6-29	151818	Jumper (4-1/4" Black) 6-2,6-29	154664	Bracket 6-36
145712	Cable Assembly 6-29	151819	Jumper (3" Black) 6-2,6-5,6-6,6-13,6-16,6-24,6-29,6-36,6-37	154665	Cable Assembly 6-16
145894	Switch Assembly 6-27	151827	Strap, Terminal 6-3,6-4,6-24,6-27,6-29	154747	Modification Kit 6-36
146551	Resistor (47.5K Ohm) 6-21	151880	Nut (4-40 Hex) 6-19	155023	Switch, Toggle 6-4,6-27,6-28
146572	Plate, Mounting 6-21	151913	Plate, Mounting 6-9	155043	Solenoid Assembly 6-16
146573	Plate, Mounting 6-21	151916	Transformer (115 Volt) 6-9	155045	Switch, Toggle 6-27
146574	Connector, Plug (8 Pt) 6-21	152109	Filter 6-5	155558	Relay Assembly, D-C Control 6-12
146650	Inductor (307E) 6-21	152110	Bracket 6-5	155560	Relay, General Purpose 6-12
146652	Modification Kit 6-21	152124	Spacer 6-5	155561	Cable 6-12
147059	Jack Assembly, Line 6-24	152332	Control Assembly 6-16	155564	Cover 6-12
147060	Plate 6-24	152465	Connector, Receptacle (20 Pt) 6-3,6-28,6-38	155591	Capacitor (220 Mfd) 6-9
147061	Mounting, Jack (213A) 6-24	152466	Connector, Receptacle (20 Pt) 6-3,6-38	155718	Jumper (3" Black) 6-36
147062	Jack, Line 6-24	152623	Mounting Assembly, Line Relay 6-5	155750	Sleeve, Insulating (3/32 x 1/2) 6-13,6-16
150040	Screw (6-40 x 5/8 Fil) 6-3,6-4,6-6 to 6-12,6-16 to 6-20,6-22 to 6-27,6-29,6-31,6-32,6-39	152750	Cable Assembly 6-3	155751	Sleeve, Insulating (1/8 x 1) 6-37
150323	Washer, Flat 6-37	152755	Strap, Terminal 6-3	155753	Sleeve, Insulating (1/8 x 1/2) 6-18,6-20,6-39
150849	Washer, Insulating 6-15	152757	Plate Assembly, Blank 6-25,6-26	155755	Sleeve, Insulating (11/64 x 5/8) 6-11,6-37,6-39
150948	Plate (Teletype) 6-2	152759	Plate Assembly, Blank 6-425	155858	Resistor (700 Ohm) 6-4
150949	Plate (Serial) 6-2	152760	Stud (6-40) 6-4,6-24,6-27	156976	Connector, Plug (32 Pt) 6-35,6-37
150950	Plate (Code) 6-2	152761	Stud (6-40) 6-3,6-4	157230	Jumper (6" Black) 6-2
150992	Stud (4-40) 6-37	152884	Screw (12-24 x 1 Hex) 6-35	157231	Jumper (8" Black) 6-2,6-36
150995	Bushing 6-17,6-18,6-20	152893	Screw (4-40 x 1/4 Hex) 6-37	157232	Jumper (9-1/4" Black) 6-2,6-36
151152	Screw (4-40 x 3/16 Hex) 6-14	152950	Rectifier Assembly 6-9	157307	Spacer 6-16
151346	Screw (6-40 x 3/8 Fil) 6-2,6-3,6-4,6-27,6-29,6-31,6-32	152988	Plate, Cover 6-25	157308	Bracket 6-16
151401	Base 6-6	153002	Plate, Identification (Bell) 6-2	157309	Plate, Nut 6-16
151402	Core 6-6	153102	Screw, Set (8-32) 6-14	157310	Switch, Sensitive 6-16
151403	Frame 6-6	153108	Insulator 6-9	157998	Retainer, Roller 6-2
151406	Plate 6-6	153157	Resistor (400 Ohm) 6-6	158216	Plate, Nut (6-40) 6-3
151407	Collar 6-6	153251	Control Assembly 6-6	158259	Connector, Receptacle (20 Pt) 6-38
151408	Lever 6-6	153442	Screw (10-32 x 1/2 Hex) 6-34	158264	Cable Assembly, Main 6-38
151409	Armature 6-6	153451	Block, Terminal 6-13	158265	Cable Assembly, Slow Release Relay 6-11
151410	Clip, Retaining 6-6			158266	Cable Assembly 6-13
151411	Block, Terminal 6-3,6-4,6-19,6-24,6-27,6-29			158267	Cable Assembly, Line Relay Mounting 6-5
151412	Insulator 6-3,6-4,6-19,6-24,6-27,6-29			158272	Plate (Right) 6-4,6-31
151414	Switch, Sensitive 6-6			158273	Plate, Mounting 6-26,6-31
151416	Nut (6-40 Hex) 6-3,6-4,6-19,6-24,6-27,6-29			158278	Container 6-2,6-26,6-29,6-31
151418	Fuse (10 Amp) 6-27				
151422	Connector, Receptacle (2 Pt) 6-4,6-27,6-31				
151426	Plate, Blank 6-25				
151427	Plate, Clamp 6-5 to 6-12,6-16 to 6-18,6-20,6-22 to 6-27,6-29,6-31,6-32,6-33,6-39				

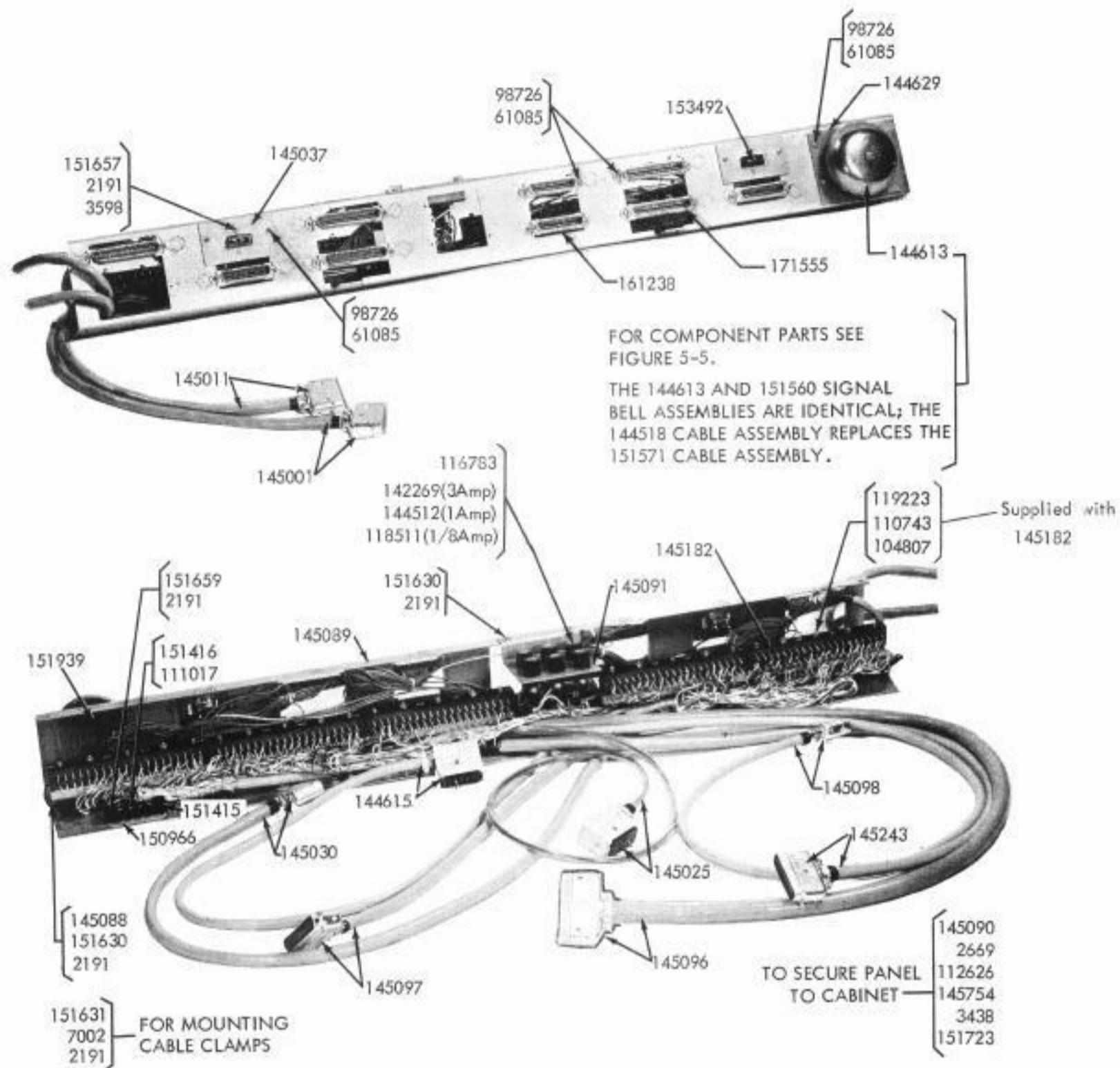
NUMERICAL INDEX - SECTION 6 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
158279	Plate, Blank 6-25,6-26,6-31	160420	Relay Assembly, Auxiliary Line	170290	Cable Assembly, Resistor 6-23
158280	Plate 6-3		Shunt 6-15	170573	Rectifier, Power - 48 Volt D.C.
158281	Connector, Plug (32 Pt) 6-35	160421	Bracket 6-15		6-27
158282	Cable Assembly, Main 6-38	160432	Jumper (13" Black) 6-2	171462	Resistor (450 Ohm) 6-27
158283	Connector, Receptacle (32 Pt) 6-37	160433	Jumper (16" Black) 6-2	171463	Resistor (1 Ohm) 6-27
158284	Connector, Receptacle (20 Pt) 6-26	160678	Jumper (24" Black) 6-2	171490	Connector, Card (15 Pt) 6-29
158291	Cover, Line Relay 6-3,6-15	160831	Terminal 6-37	171516	Relay (293C) 6-29
158292	Bracket, Terminal 6-4,6-29	160833	Plate, Relay 6-5	171522	Resistor (400 Ohm) 6-37
158293	Key Assembly, Line Test 6-3,6-13	160847	Stud (6-40) 6-16	171541	Diode (IN1693) 6-10
158294	Key, Line Test 6-13	161136	Fuse (6-1/4 Amp) 6-4,6-31	171602	Diode (GTD 976) 6-29
158295	Bracket, Resistor 6-13	161239	Connector, Plug (36 Pt) 6-29,6-38	171609	Diode (320 B) 6-27
158296	Bracket, Test Key 6-13	161526	Connector, Receptacle (14 Pt) 6-38	171610	Transformer (115 Volt) 6-27
158554	Post, Pilot (6-40) 6-21	161875	Resistor (2000 Ohm) 6-29	171641	Fuse (6 Amp) 6-27
158601	Connector, Plug (14 Pt) 6-38	162356	Rectifier Assembly 6-8	171644	Fuse (1-1/2 Amp) 6-27
158694	Plate, Designation 6-14	162357	Capacitor (500 Mfd) 6-8,6-31	171651	Connector, Receptacle (6 Pt) 6-28
158696	Knob W/Screw 6-14,6-34	162358	Diode (IN1489) 6-8,6-9,6-31,6-37	172971	Board, Terminal 6-37
158827	Connector, Receptacle (32 Pt) 6-35,6-38	162359	Transformer (115 Volt) 6-8,6-31	173138	Plate, Designation 6-14
159230	Base 6-22	162360	Fuse (.8 Amp) 6-8,6-31	173239	Relay Assembly, Auxiliary Reader Control 6-15
159269	Fuse (3/8 Amp) 6-7	162361	Rectifier Assembly 6-8	173240	Cable Assembly 6-15
159318	Relay Assembly, Slow Release 6-11	162428	Jumper (18" Black) 6-2	173250	Jumper (16" Black) 6-2
159319	Relay, Slow Release 6-11	162441	Resistor (3,750 Ohm) 6-15	173251	Mounting Assembly, Line Relay 6-5
159320	Cover, Relay 6-10,6-11,6-32	162468	Cable Assembly, Main 6-38	173252	Key Assembly, Line Test 6-13
159321	Bracket, Relay 6-10,6-11,6-32,6-39	162483	Relay Assembly, Call Directing 6-35	173255	Plate, Relay 6-5
159322	Plate, Relay 6-10,6-11,6-32	162630	Modification Kit 6-14	173281	Resistor Assembly 6-23
159323	Resistor (1500 Ohm) 6-11,6-16	162856	Cable Assembly, Main 6-38	173320	Plate, Relay Mounting 6-35
159324	Bracket, Resistor 6-11	162864	Clamp, Cable (7/8 ID) 6-18,6-20	173321	Bracket, Mounting 6-35
159326	Mounting Assembly, Line Relay 6-5	162896	Cable Assembly, Main 6-38	173322	Switch, Stepping 6-35
159819	Connector, Plug (32 Pt) 6-38	163169	Shaft, Control 6-14	173323	Relay (2 Coil) 6-35
159820	Connector, Receptacle (32 Pt) 6-38	163172	Bracket, Arm 6-14	173325	Relay, Delay 6-35
159821	Plate, Connector 6-26	163965	Plate Assembly, Blank 6-25	173326	Relay 6-35
160226	Mounting Assembly, Line Relay 6-5	164085	Plate, Blank 6-25	173327	Post, Guide 6-35
160227	Cable Assembly 6-5	164232	Cable Assembly, Main 6-38	173328	Bracket 6-35
160229	Plate 6-7,6-8,6-31	164233	Line Test Key Assembly 6-13	173329	Cable Assembly 6-35
160284	Resistor (5500 Ohm) 6-5	164237	Cable Assembly 6-13	173330	Connector, Receptacle (32 Pt) 6-35
160307	Diode (IN539) 6-7	164642	Cable Assembly, Main 6-38	173452	Cover 6-35
160308	Capacitor (300 Mfd) 6-7	164643	Jumper (22" Black) 6-2	173727	Keyer Assembly, Electronic 6-19
160309	Transformer (115 Volt) 6-7	164840	Jumper (33" Black) 6-2	173779	Modification Kit 6-3
160325	Relay (RSI) 6-37	164853	Plate, Mounting 6-31	173797	Keyer Assembly, Electronic 6-19
160326	Relay (ST) 6-37	164854	Cable Assembly 6-30	173800	Plate 6-19
160328	Relay (OL) 6-37	164855	Cable Assembly 6-30	173801	Turret, Socket 6-19
160332	Flasher, Thermal 6-37	164862	Cable Assembly 6-30	173817	Tube, Vacuum 6-19
160334	Modification Kit to Provide Transmitter Control 6-37	164863	Plate, Mounting 6-32	173842	Base, Tube Shield 6-19
160336	Cable Assembly 6-37	164867	Relay 6-32	173844	Stud (6-40) 6-19
160337	Cable Assembly 6-38		Cable Assembly, Auxiliary 6-32	174012	Resistor (200,000 Ohm) 6-19
160357	Clip, Spring 6-37	164868	Modification Kit 6-32,6-33,6-34	174306	Container 6-32
160358	Cover W/Washer 6-37	164869	Cable Assembly 6-34	176348	Relay 6-37
160359	Plate, Relay 6-37	164870	Bracket 6-34	176381	Cable Assembly 6-38
160361	Clip, Mounting 6-37	164951	Cable Assembly, Main 6-38	176382	Cable Assembly 6-38
160362	Plug, Banana 6-37	165008	Turret, Terminal 6-31,6-32	176386	Switch, Rotary 6-38
160363	Capacitor (6 Mfd) 6-37	165060	Socket, Tube 6-21,6-29	176387	Plate 6-39
160365	Jumper (28" Braided) 6-37	165062	Capacitor (2 Mfd) 6-22	176448	Bracket, Mounting 6-39
160367	Plate, Mounting - Left 6-26	165073	Diode (KS-15724) 6-23	176495	Cable Assembly 6-38
160369	Switch, Push Button 6-38	165116	Terminal 6-20	176673	Control Assembly, Relay Motor 6-16
160373	Cable Assembly, Container 6-38	165168	Key 6-29	176680	Transformer, Power 6-9
160378	Cable Assembly, Auxiliary Switch 6-38	165522	Diode (420B) 6-18,6-20	176692	Suppressor W/Terminals, Spark 6-10
160379	Cable Assembly, Cabinet 6-38	165650	Relay Assembly, Motor Control and Answer Back Control 6-20	176693	Cable Assembly 6-38
160384	Bracket, Connector 6-38	165651	Bracket, Mounting 6-20	176694	Relay Assembly 6-10
160385	Plate, Relay 6-5	165652	Cable Assembly 6-20	176696	Relay, Slow Release 6-10,6-22
160386	Resistor (1,000 Ohm) 6-39	170285	Resistor Assembly 6-23	176697	Cable Assembly 6-10
160389	Screw (12-24 x 1-1/4 Rd) 6-37	170286	Cable Assembly, Main 6-38	176698	Relay Assembly 6-10
160411	Bracket 6-37	170287	Plate 6-23	176788	Capacitor (60 Mfd) 6-10
160419	Cable Assembly 6-15	170288	Resistor (3,500 Ohm) 6-23	176810	Relay Assembly 6-10
		170289	Capacitor (1.3-1.6 Mfd) 6-23	176811	Plate, Mounting 6-10
				176812	Cable Assembly 6-10
				178137	Cable Assembly 6-22

NUMERICAL INDEX - SECTION 6 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
178138	Relay Assembly, Slow Release 6-22	178781	Cable Assembly 6-38	179472	Modification Kit 6-37
178140	Plate, Mounting 6-22	178831	Connector, Receptacle (2 Pt) 6-4	179484	Screw (12-24 x 5/16 Pan Head) 6-15
178306	Relay, Power 6-17,6-18,6-20	178832	Plate, Adapter 6-4	179486	Cover, Insulator 6-5
178307	Relay Assembly, Motor Control 6-17	178853	Cover 6-3	179487	Stud (6-40) 6-5
178308	Cable Assembly 6-17,6-18	178854	Bracket 6-3	179488	Mounting Assembly, Line Relay 6-5
178326	Capacitor (20 Mfd) 6-18,6-20	178856	Relay, Line Shunt 6-3	179627	Cable Assembly 6-38
178327	Cable Assembly 6-18	178913	Diode (IN603) 6-31	179632	Relay, Quick Acting 6-39
178328	Bracket, Mounting 6-18	179195	Switch, Rotary 6-34	179662	Cover, Relay 6-39
178330	Plate 6-18,6-20	179196	Connector, Plug (75 Pt) 6-34	179671	Plate, Relay 6-5
178345	Modification Kit 6-18	179197**	Panel 6-34	179782	Screw (6-40 x 7/8 Hex) 6-17, 6-18,6-20
178351	Relay Assembly, Line 6-33	179200	Plate, Designation 6-34	179953	Modification Kit To Convert Early Design Control Device to a 179472 6-37
178352	Relay Assembly, Line 6-33	179234	Cable Assembly 6-34	179954	Relay 6-37
178382	Cable Assembly, Sub 6-31	179429	Cable Assembly 6-38	179956	Cable Assembly, Relay 6-37
178394	Plate 6-17	179444	Relay Assembly, Auxiliary Reader Control 6-15	194492	Key Assembly, Line Test 6-13
178535	Suppressor W/Terminals, Spark 6-17,6-18,6-22	179445	Cable Assembly, Line Relay Mount- ing (REPERF) 6-5		
178608	Relay Assembly 6-18	179446	Cable Assembly 6-15		
178609	Cable Assembly 6-18				

SECTION 7
AUXILIARY ELECTRICAL COMPONENTS



CABLE CLAMP	CABLE	CLAMPSIZE (ID)
121243	145025 - R	3/16
121246	144615 - S	3/8
121247	145218 - A-A	7/16
121248	145097 - X	1/2
121248	145030 - U	1/2
121248	145098 - Y	1/2
121248	145243 - M	1/2
121249	145001 - V	5/8
121249	145011 - N 145096 - W	5/8

FIGURE 7-1. 145000 DISTRIBUTOR PANEL ASSEMBLY

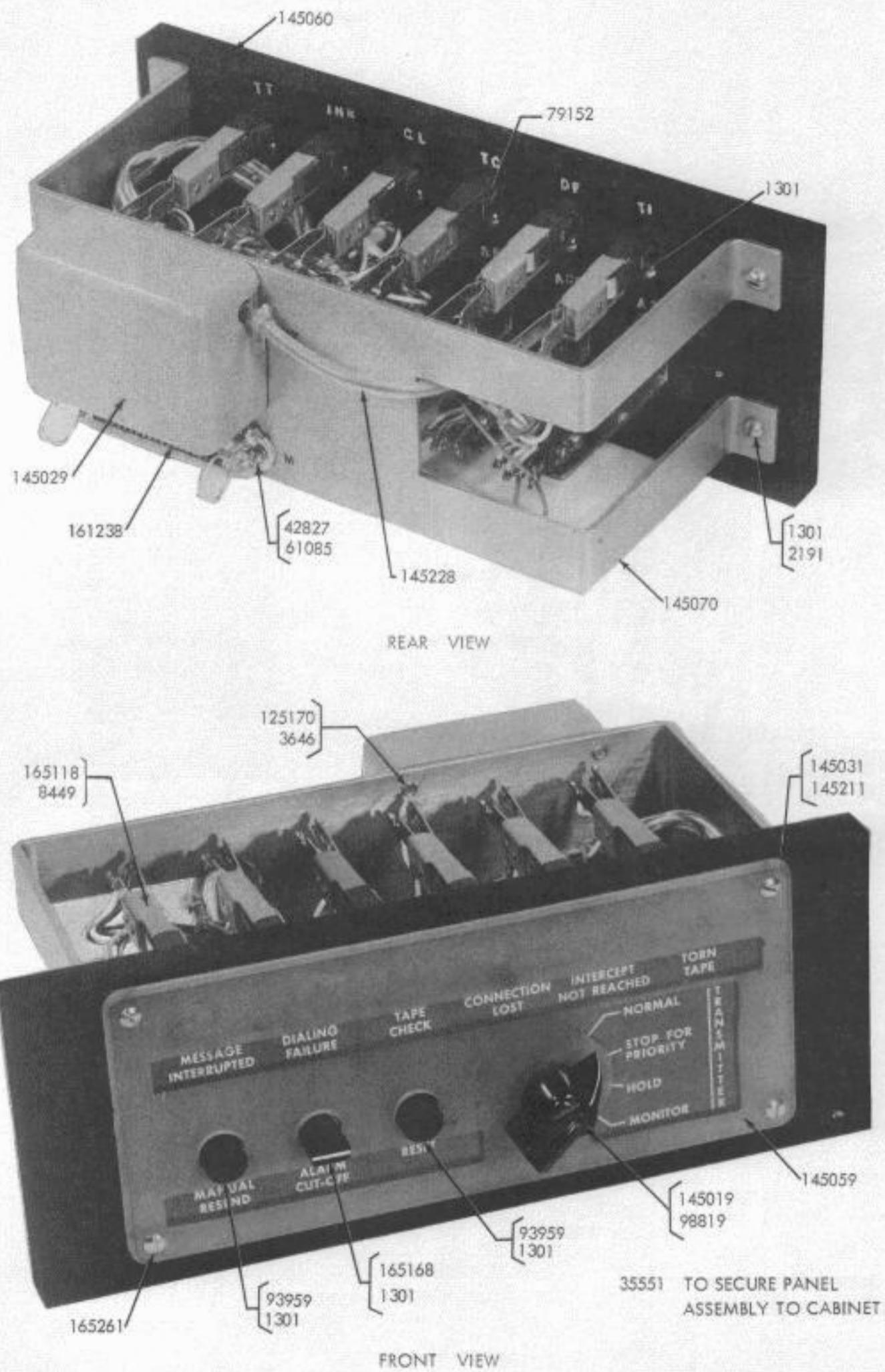


FIGURE 7-2. 145200 KEY AND LAMP ASSEMBLY

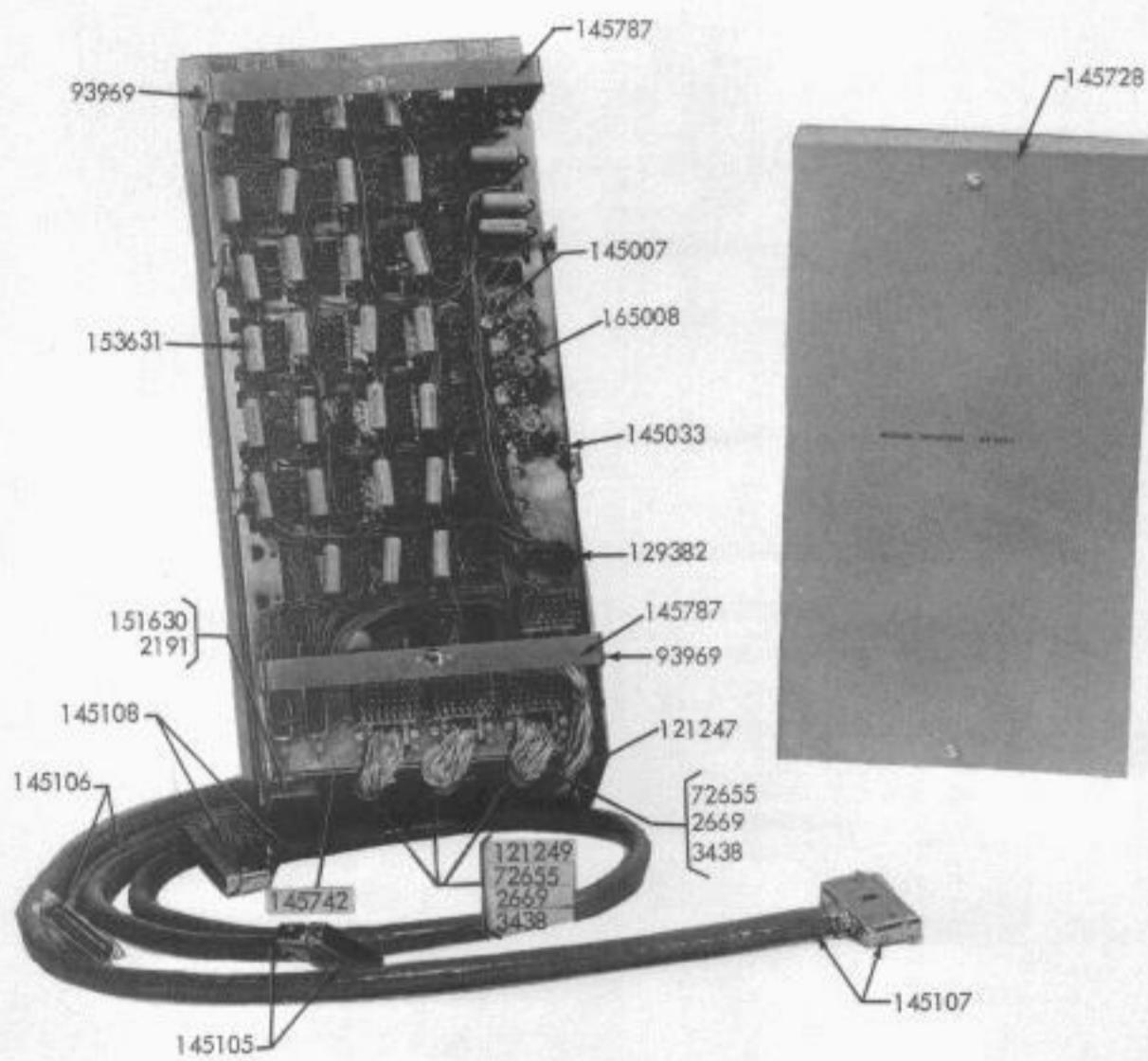


FIGURE 7-3. 145050 MESSAGE PROCESSING PANEL ASSEMBLY - FRONT VIEW

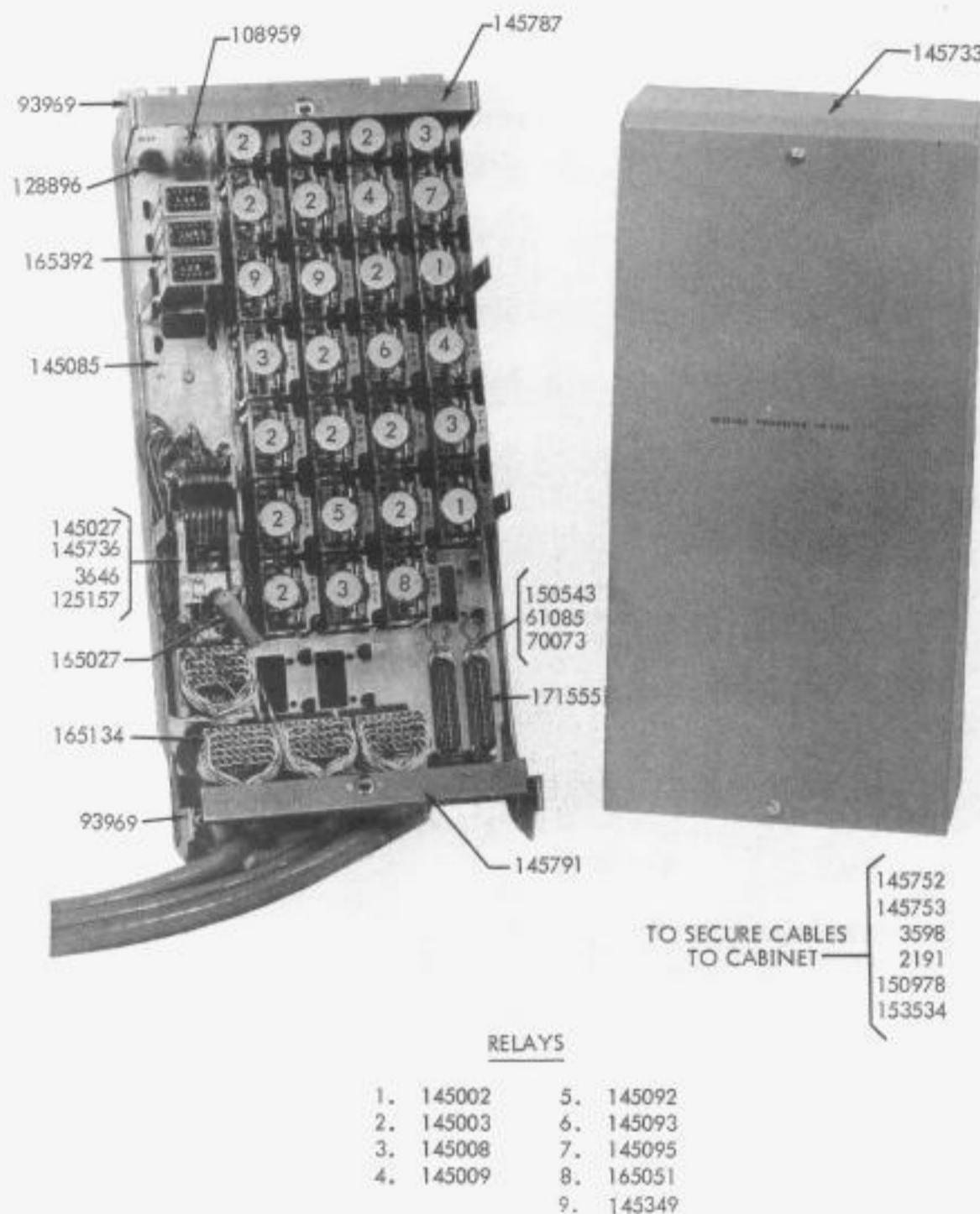


FIGURE 7-4. 145050 MESSAGE PROCESSING PANEL ASSEMBLY - REAR VIEW

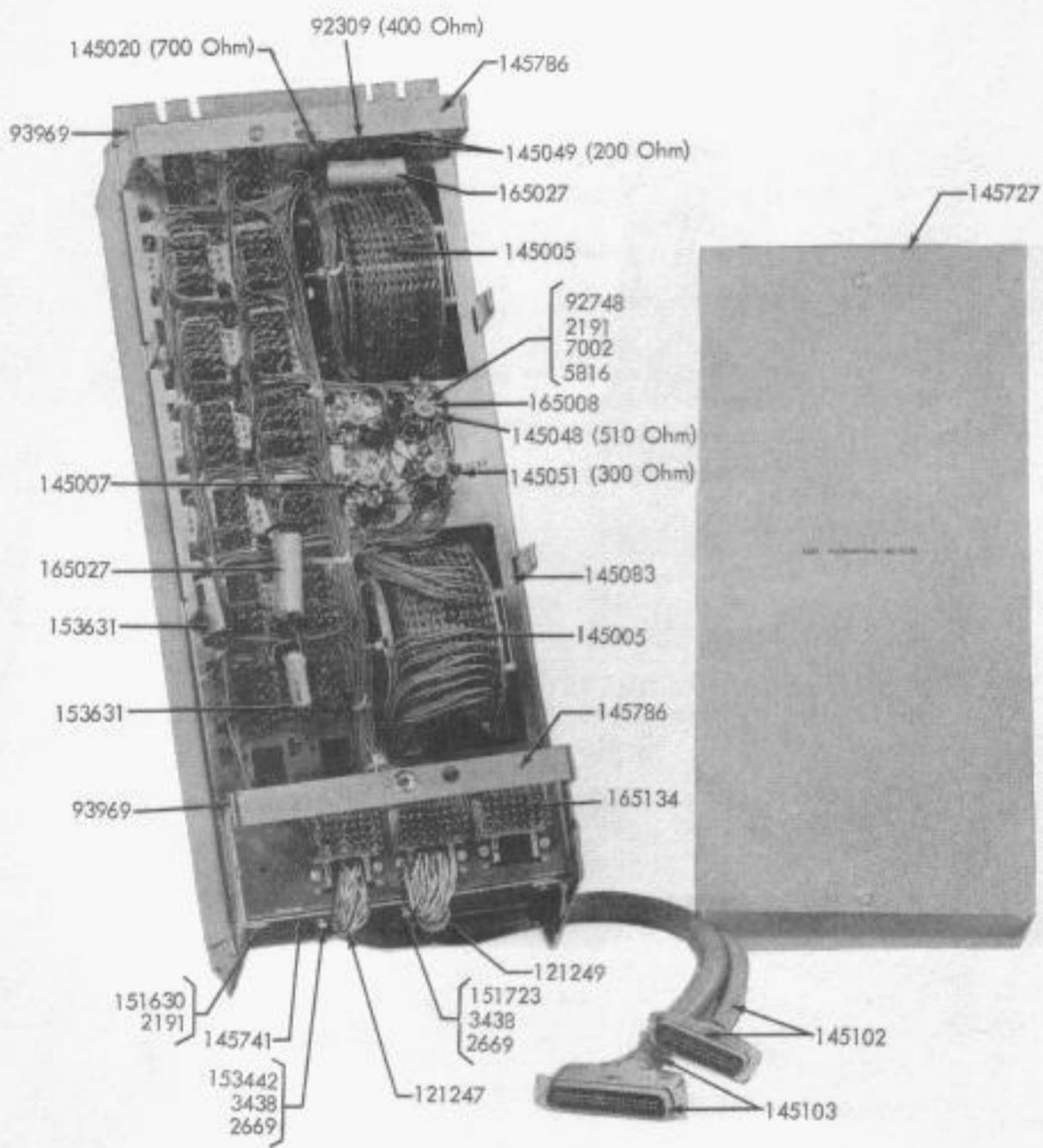
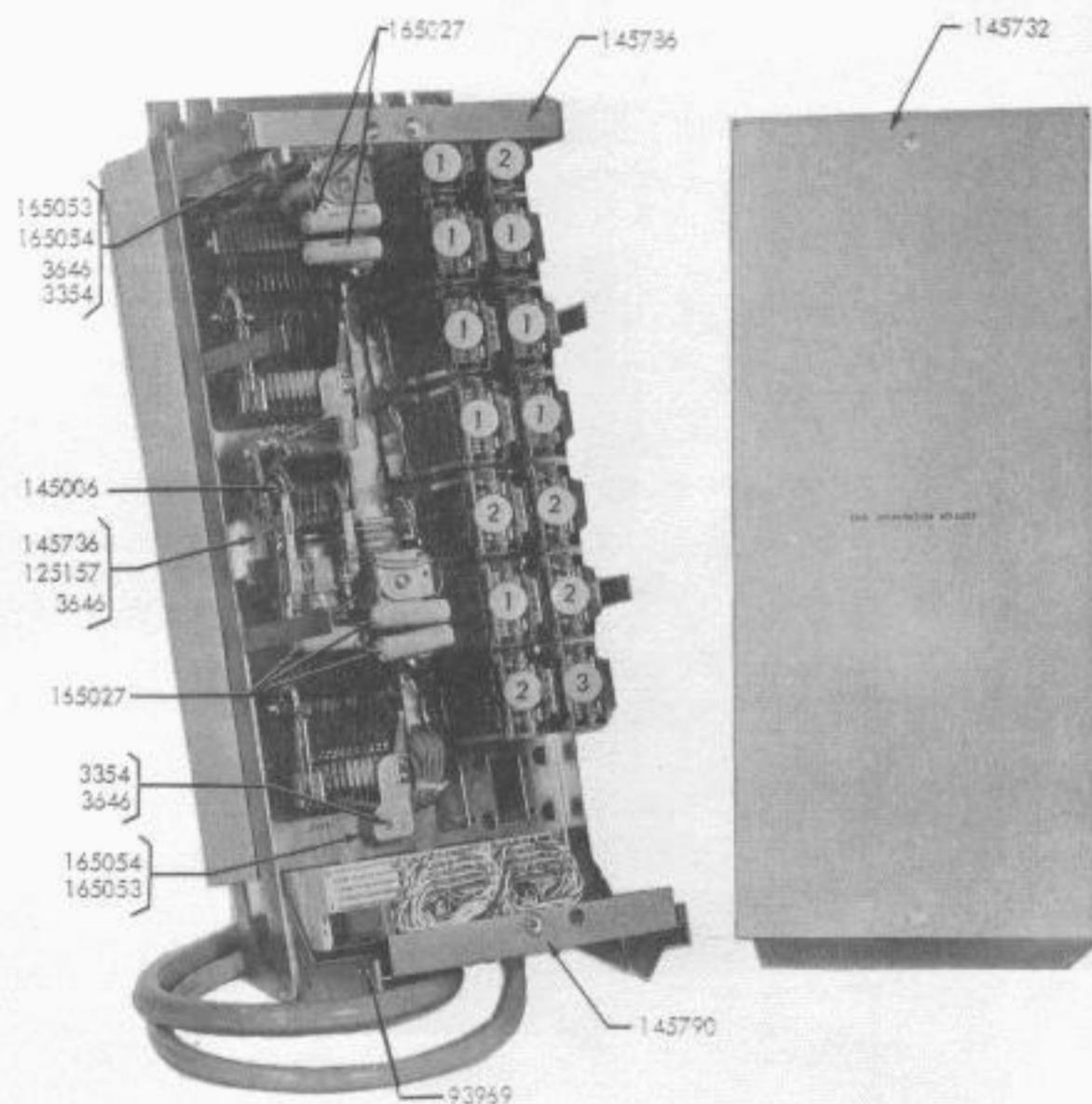


FIGURE 7-5. 145100 TAPE PREPARATION PANEL ASSEMBLY - FRONT VIEW

RELAYS

1. 144979
2. 145003
3. 145004

FIGURE 7-6. 145100 TAPE PREPARATION PANEL ASSEMBLY - REAR VIEW

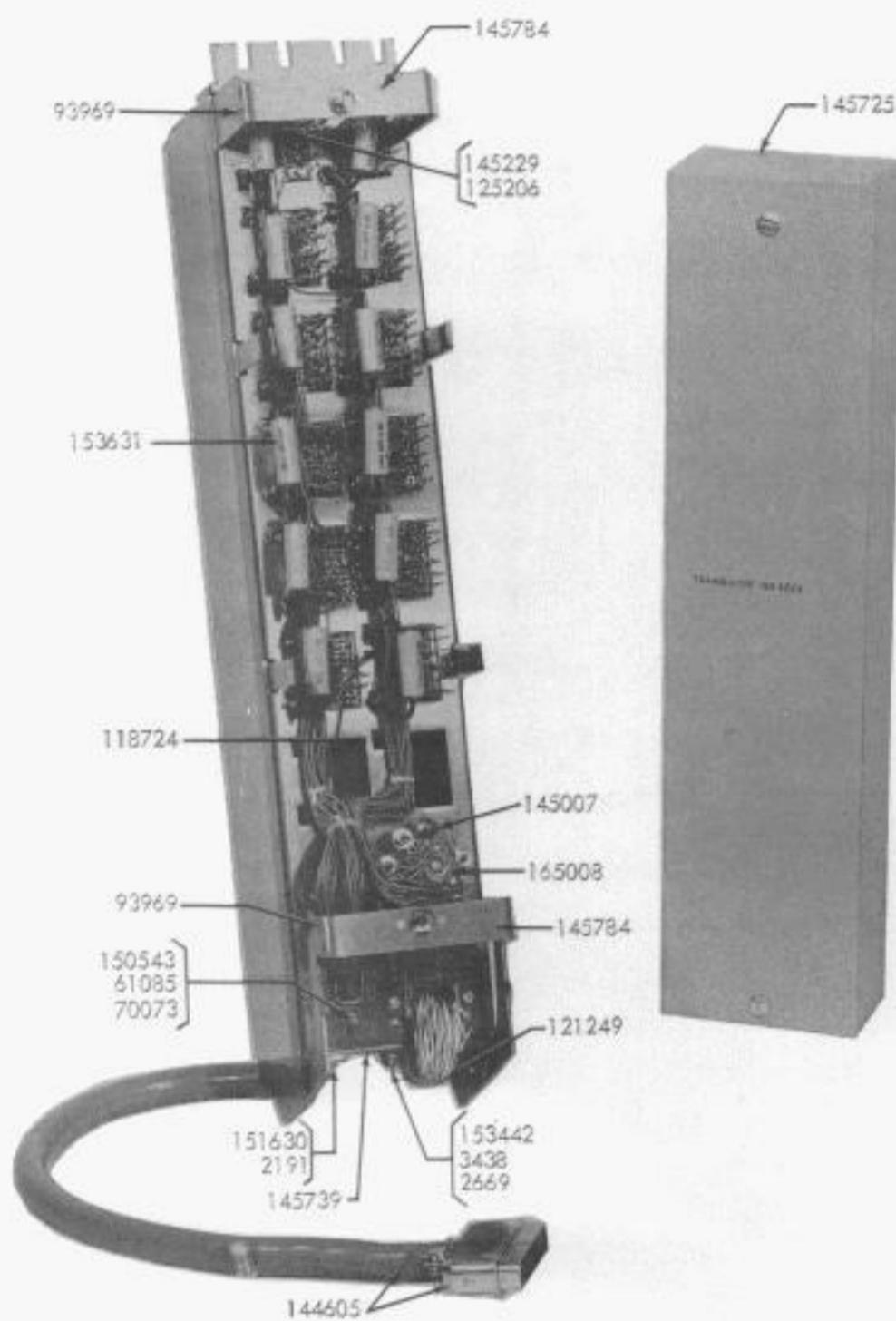


FIGURE 7-7. 145225 TRANSLATOR PANEL ASSEMBLY - FRONT VIEW

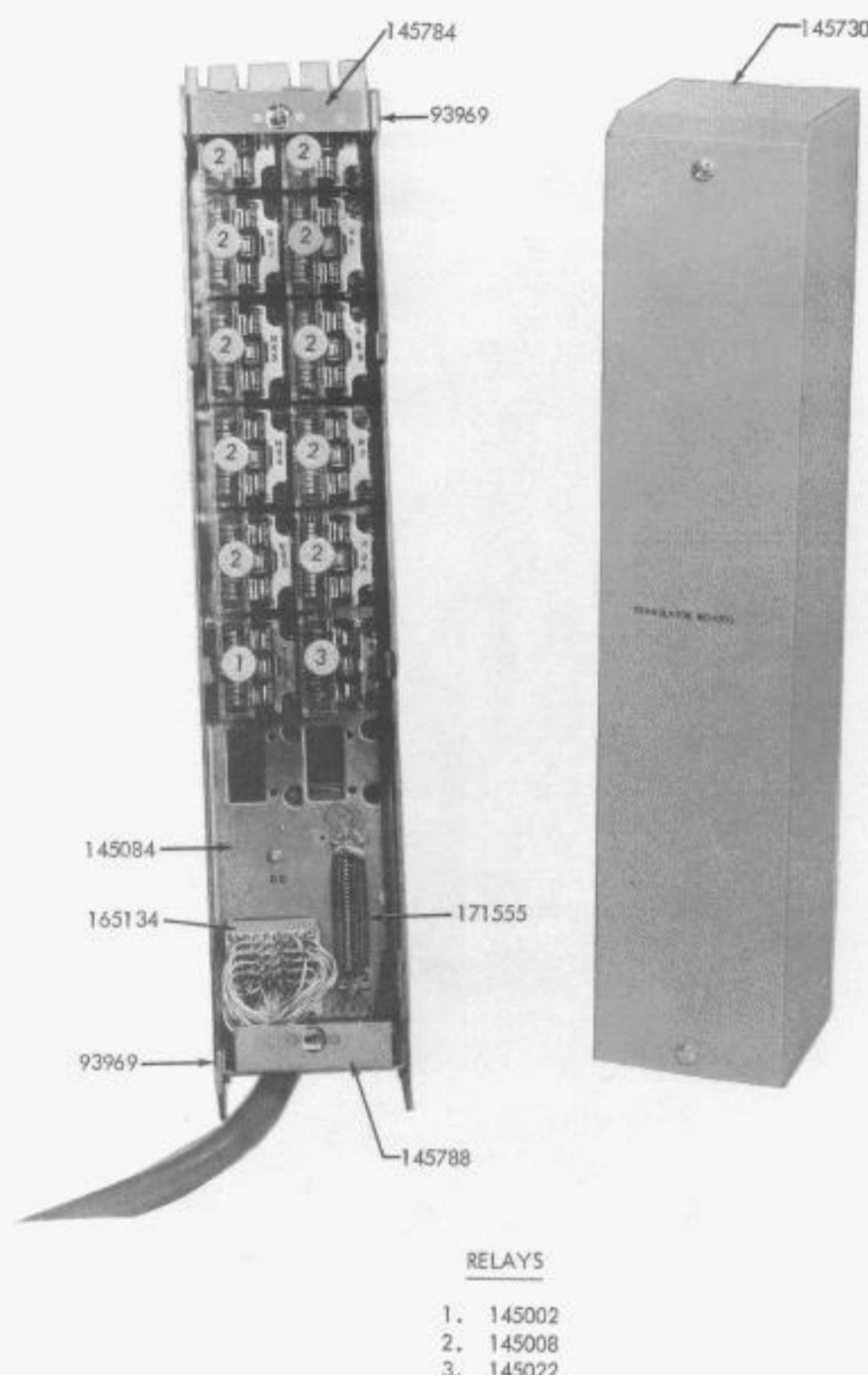


FIGURE 7-8. 145225 TRANSLATOR PANEL ASSEMBLY - REAR VIEW

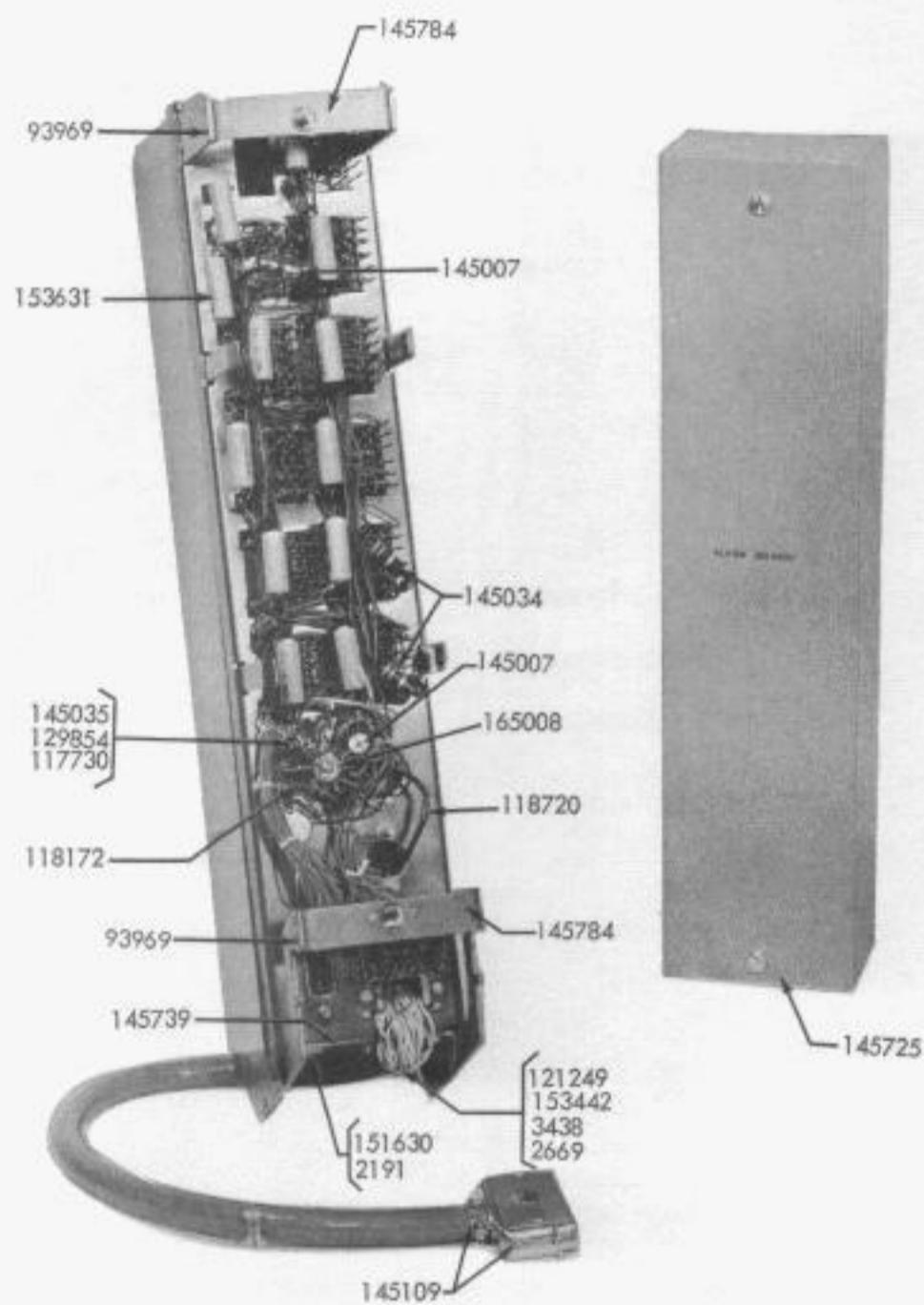
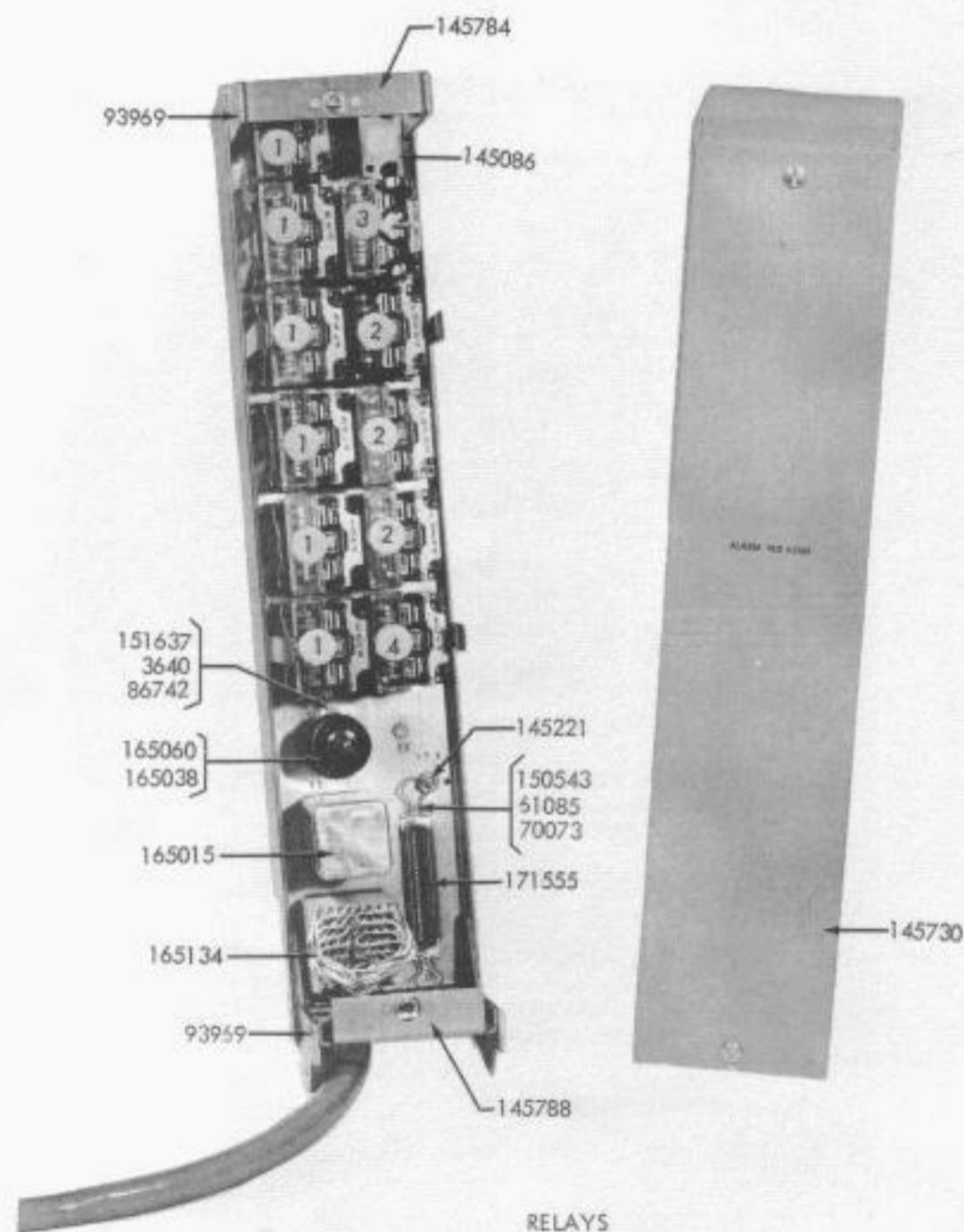


FIGURE 7-9. 145250 ALARM PANEL ASSEMBLY - FRONT VIEW

RELAYS

1. 145002
2. 145003
3. 145760
4. 145349

FIGURE 7-10. 145250 ALARM PANEL ASSEMBLY - REAR VIEW

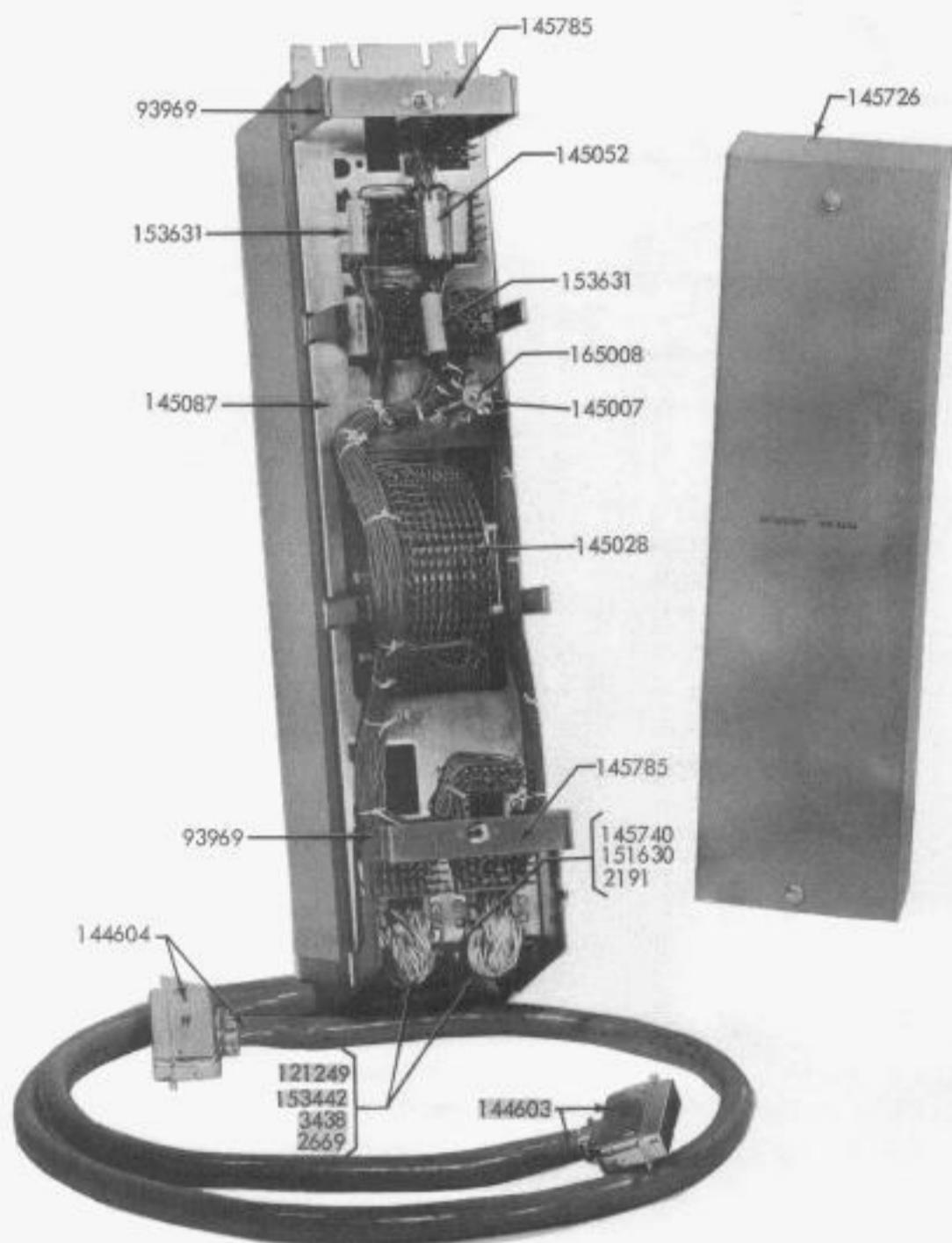
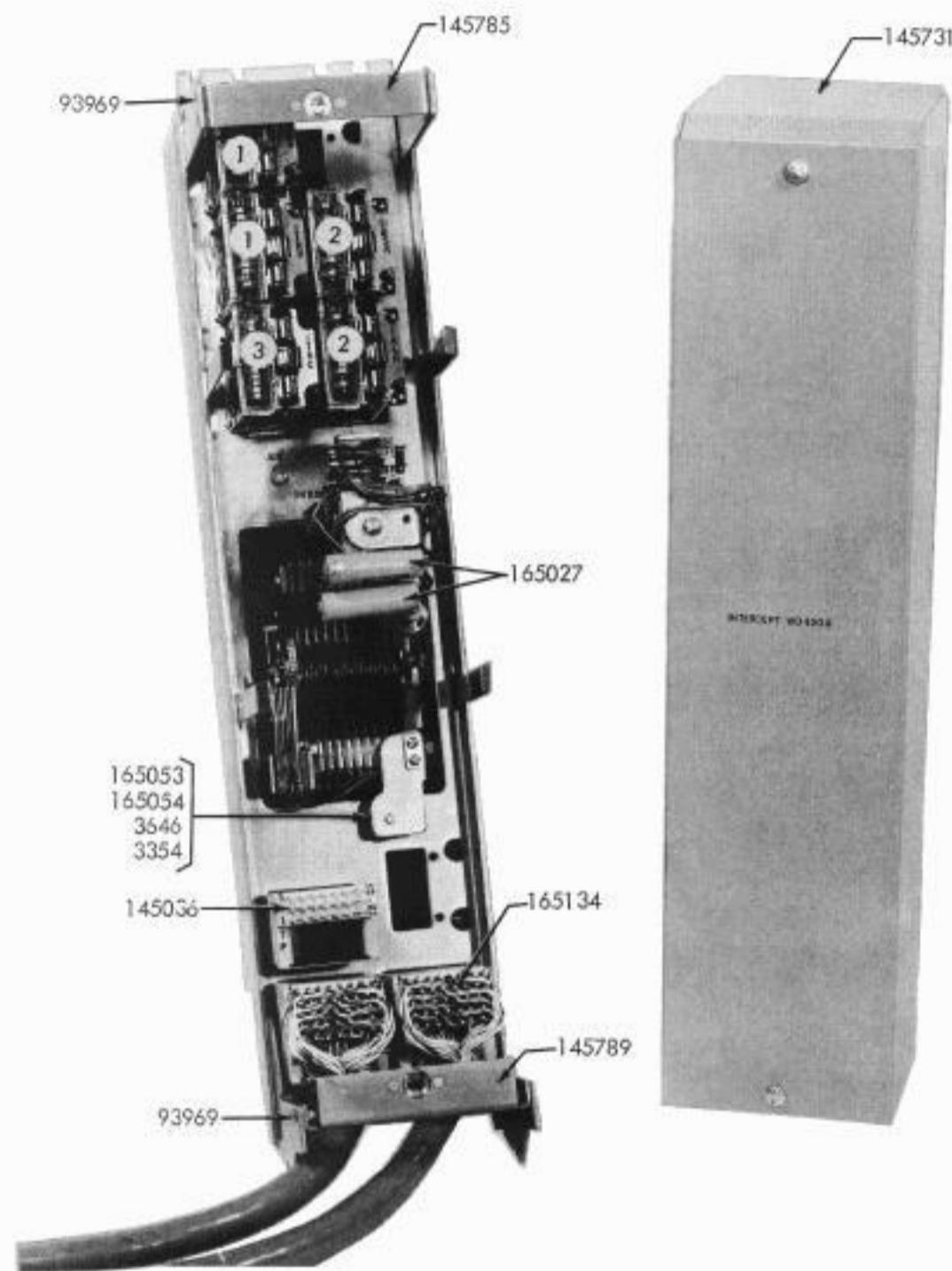


FIGURE 7-11. 145350 INTERCEPT PANEL ASSEMBLY - FRONT VIEW

RELAYS

1. 145002
2. 145003
3. 145008

FIGURE 7-12. 145350 INTERCEPT PANEL ASSEMBLY - REAR VIEW

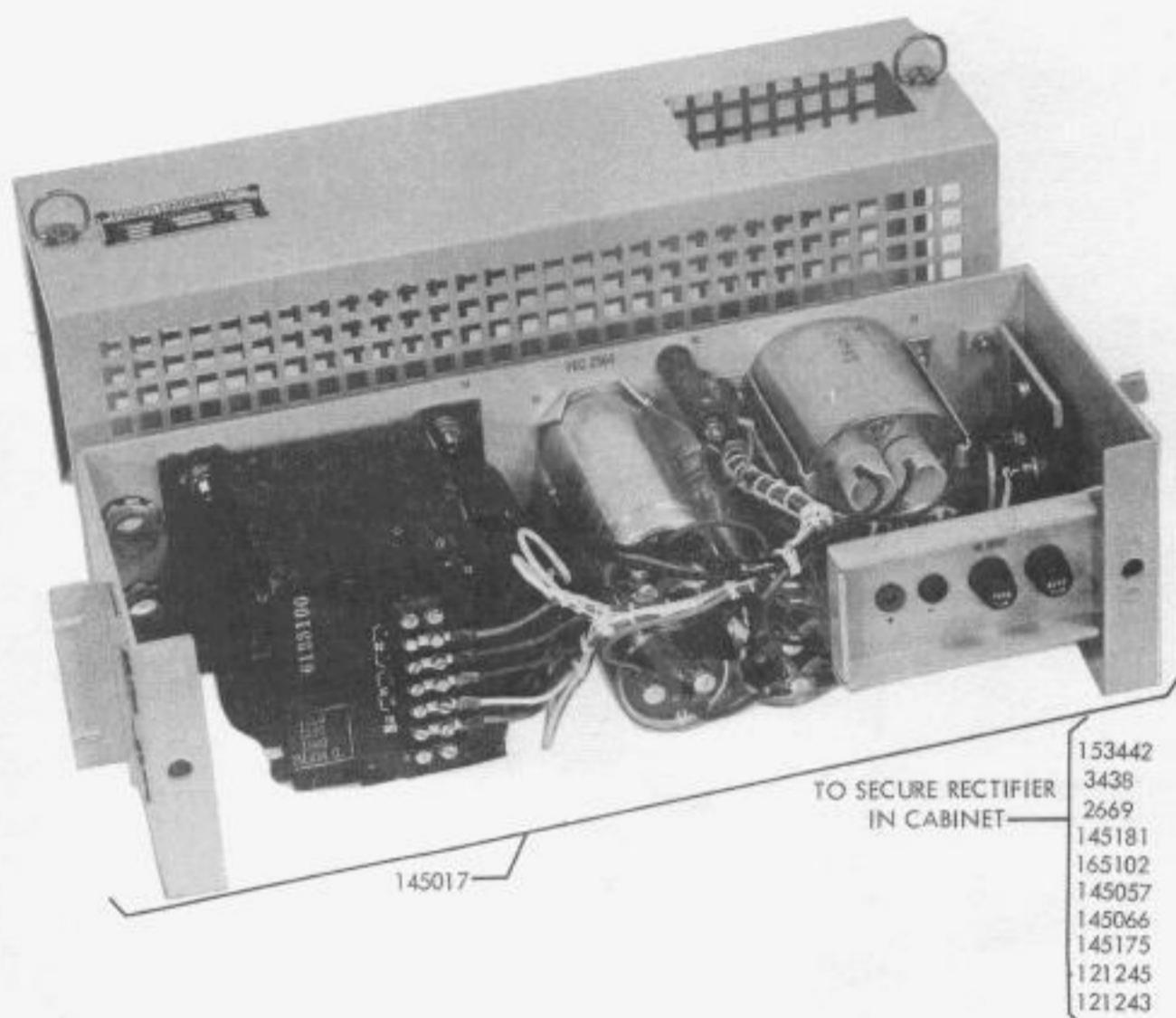


FIGURE 7-13. 145204 POWER SUPPLY D.C.

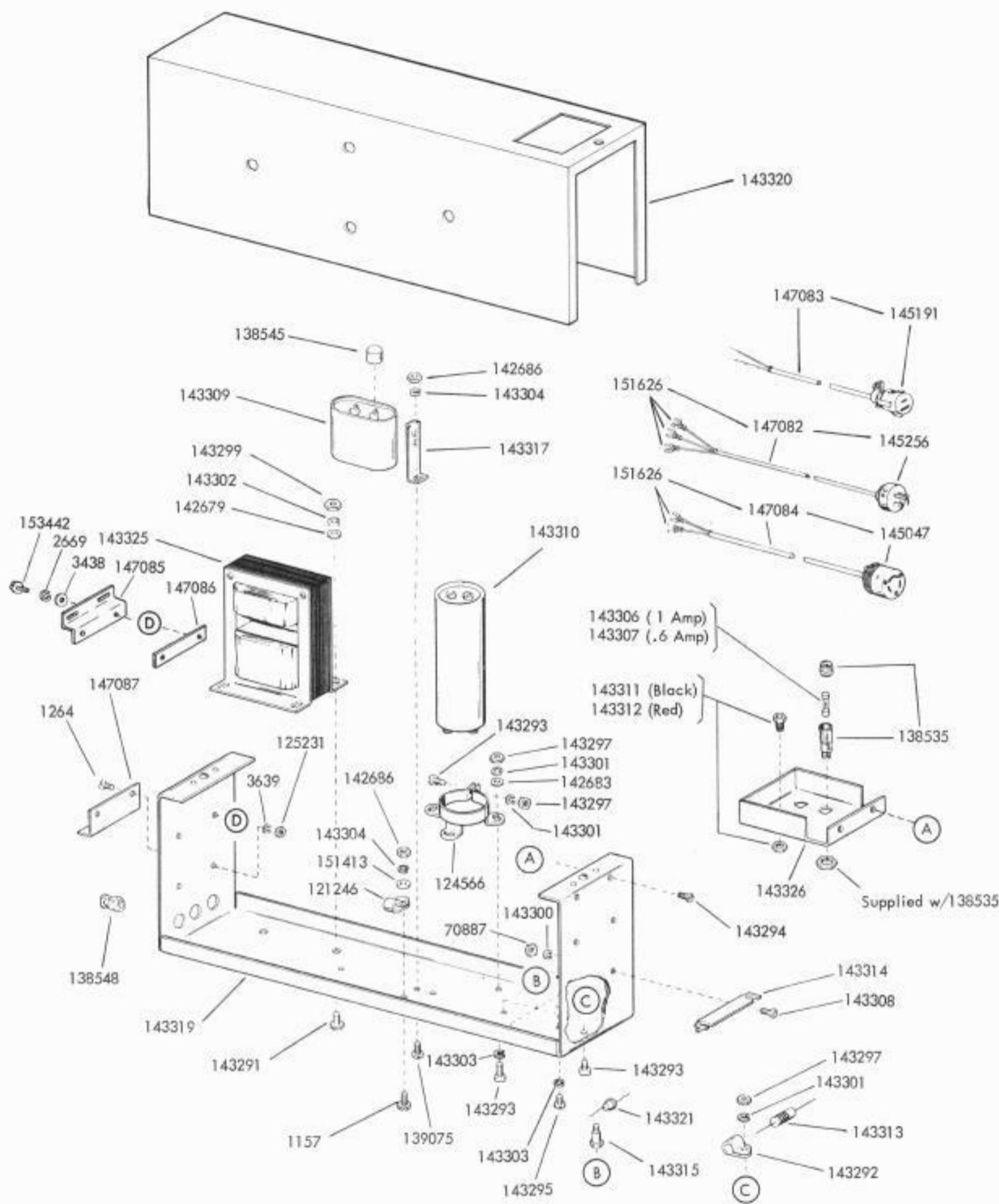


FIGURE 7-14. 147081 RECTIFIER - 130V DC - 20V AC

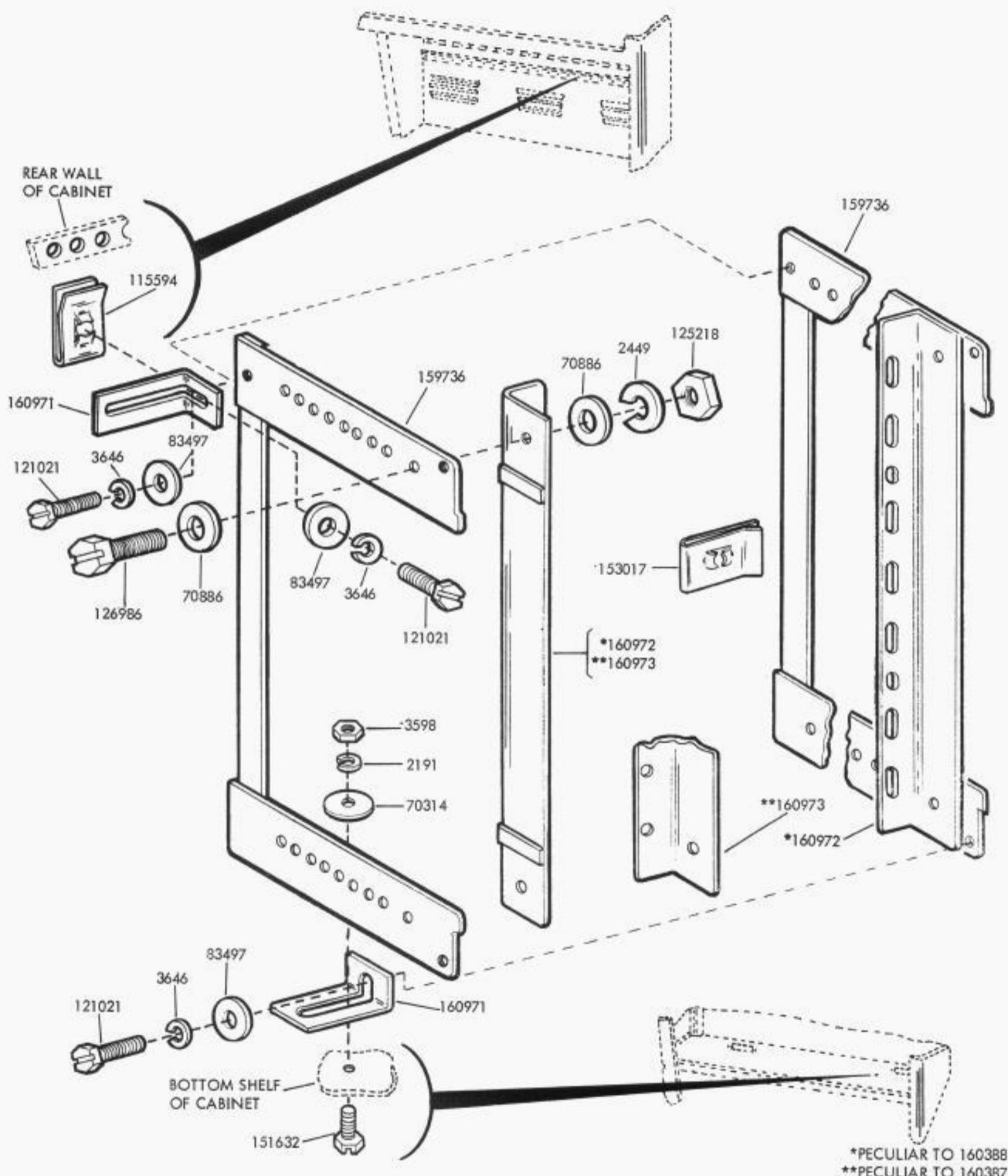


FIGURE 7-15. 160387 AND 160388 MODIFICATION KITS TO PROVIDE RELAY RACK BRACKETS

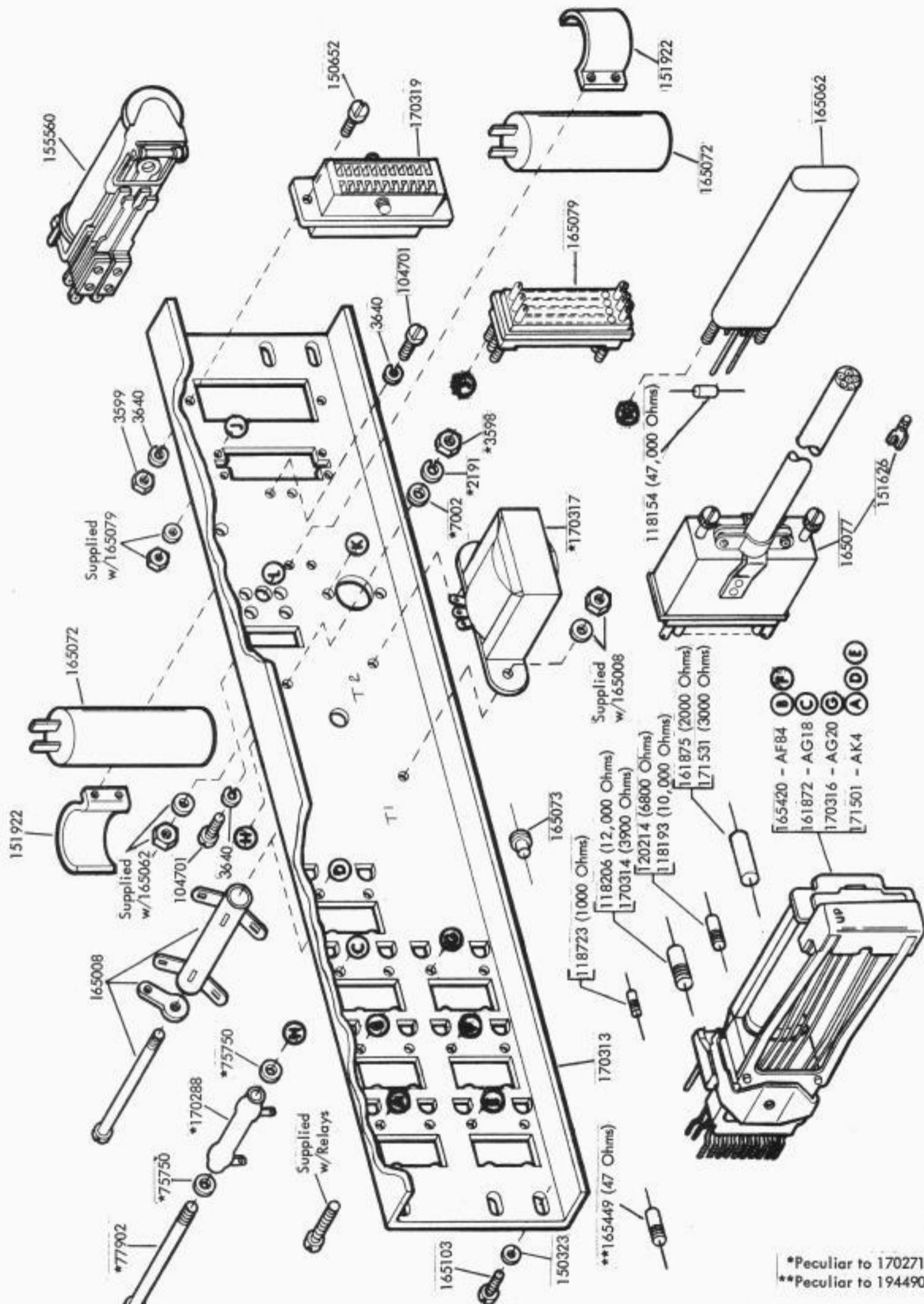


FIGURE 7-16. 170271 AND 194490 MODIFICATION KITS FOR TAPE PROGRAMMED RELAY CONTROL

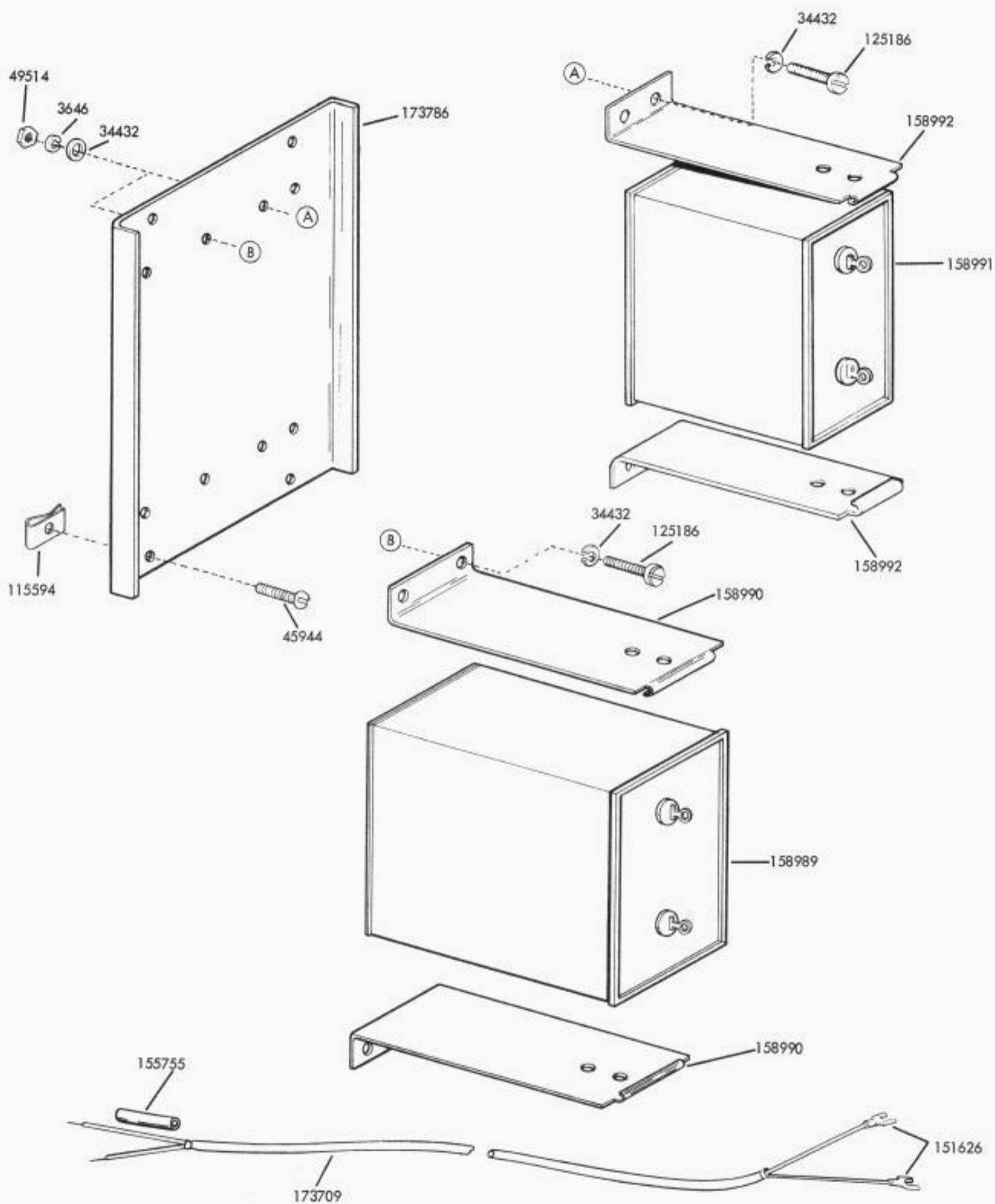


FIGURE 7-17. 173706 MODIFICATION KIT FOR POWER FACTOR CORRECTION IN CABINET (LAAC)

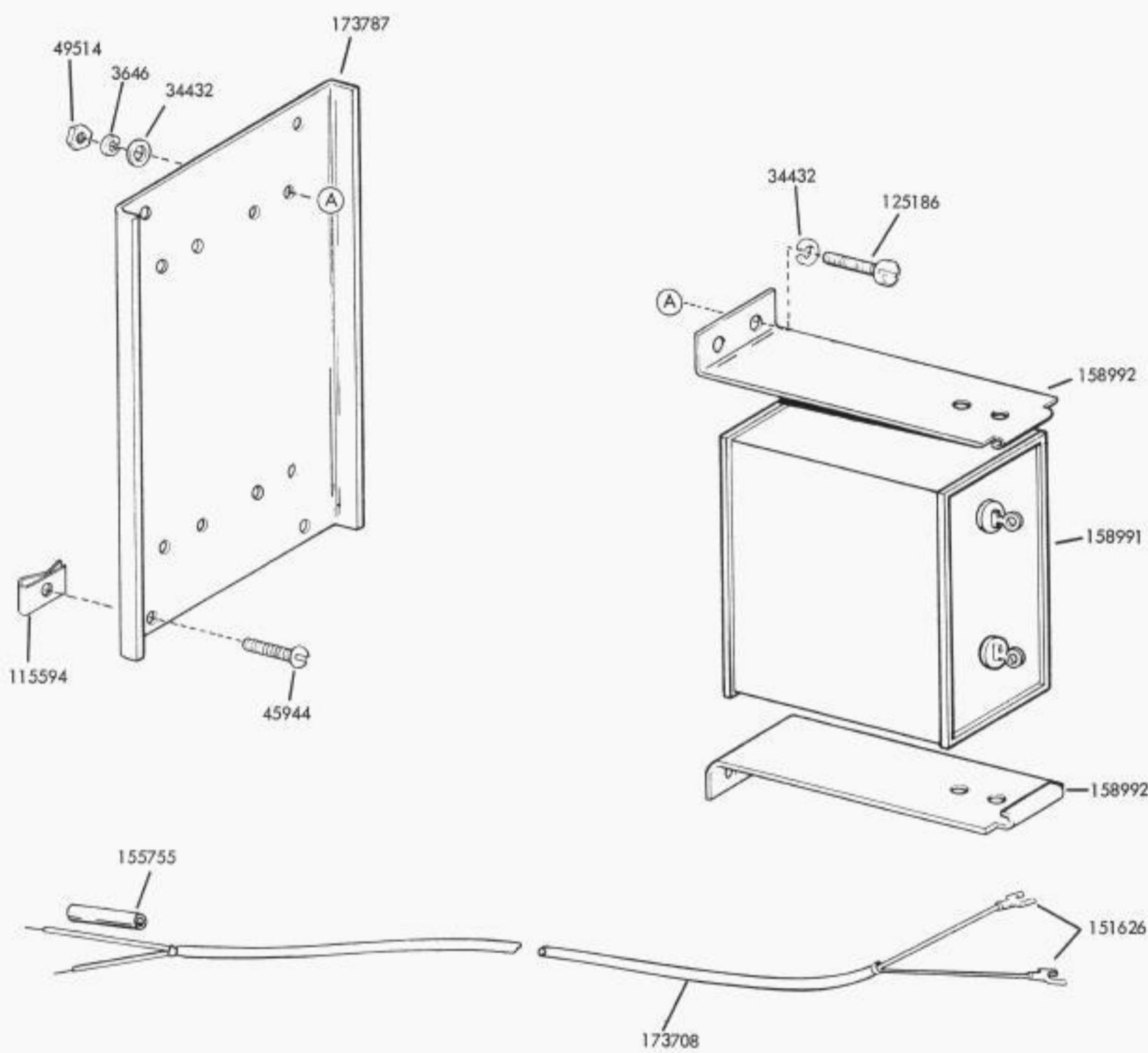
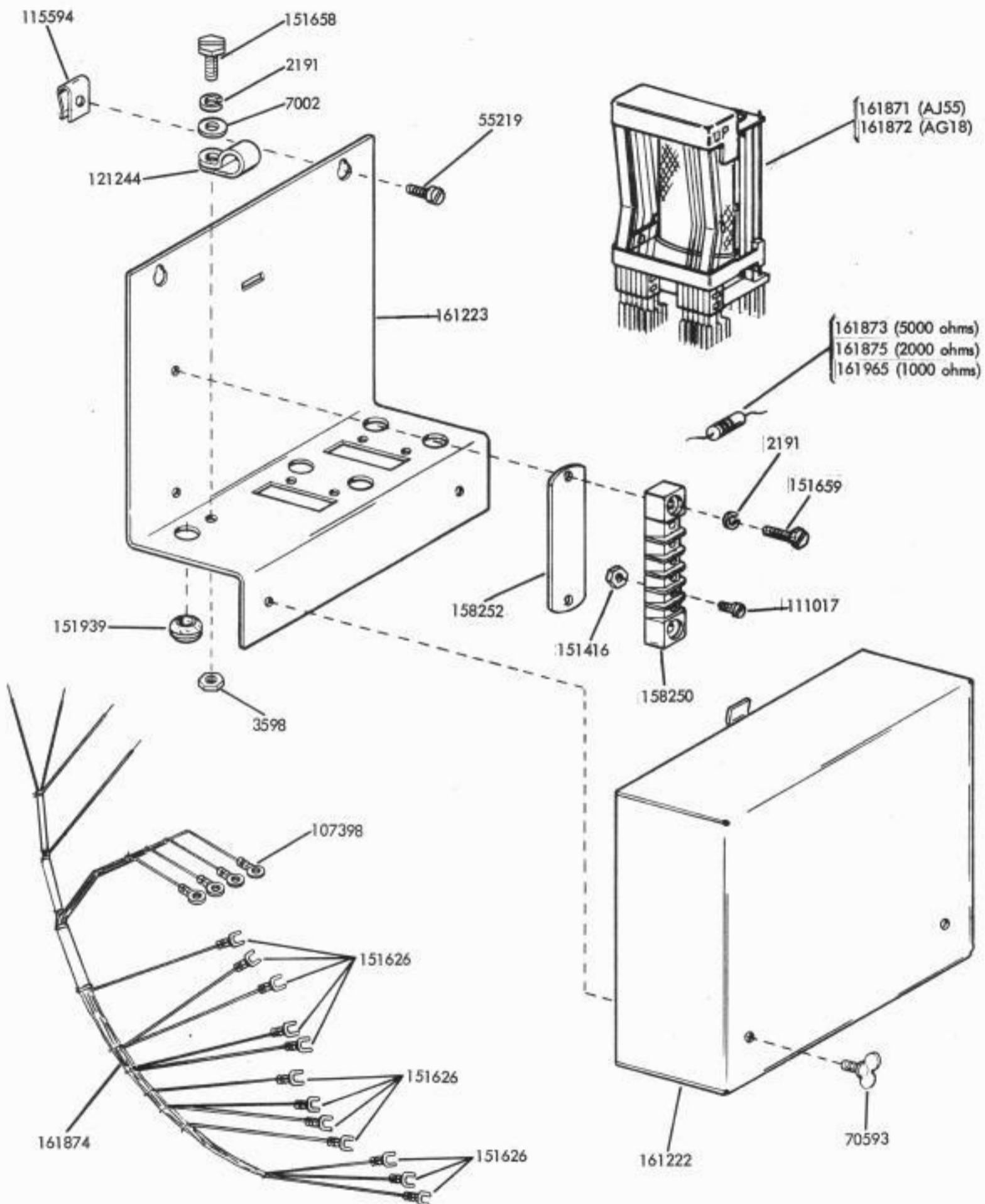
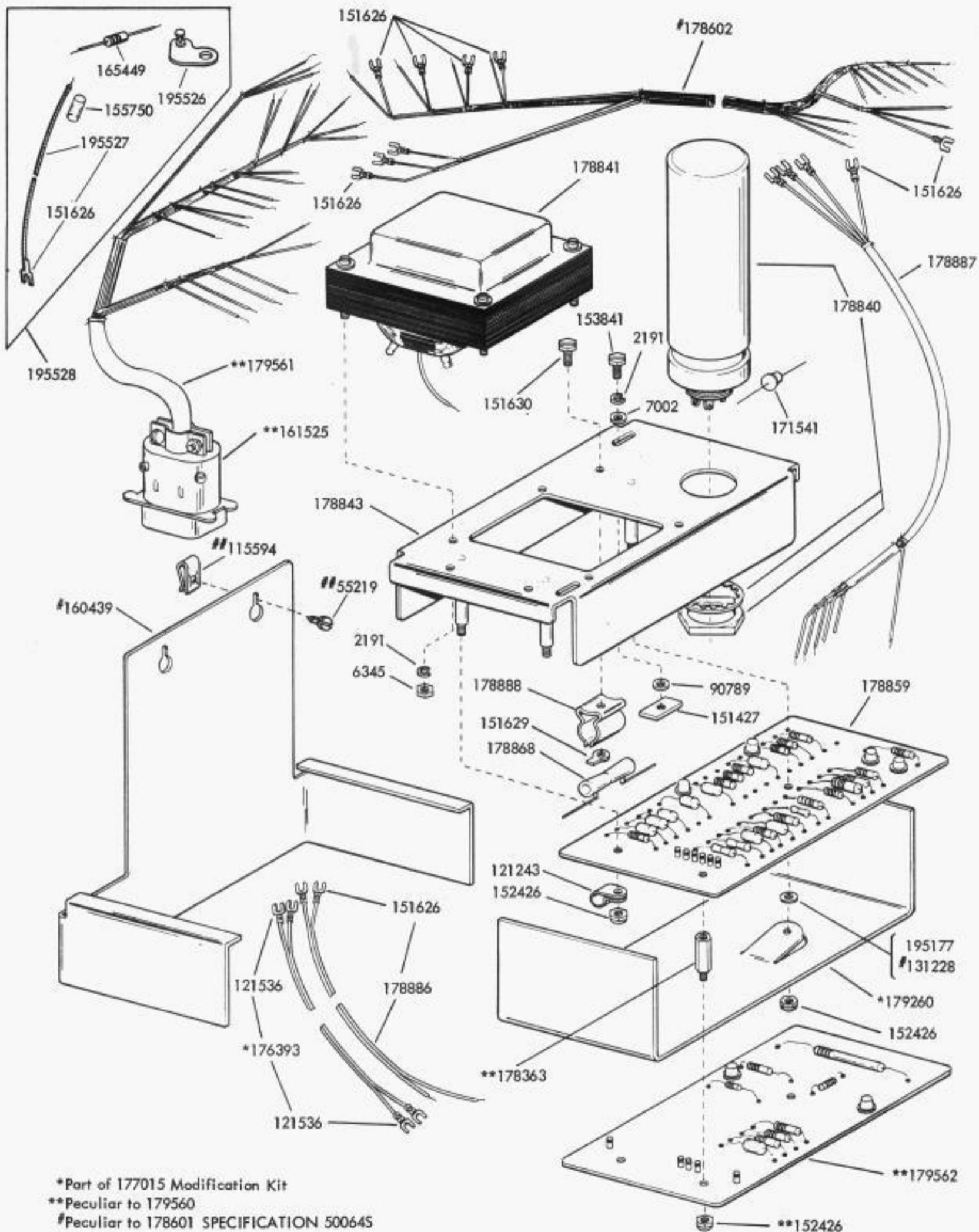


FIGURE 7-18. 173707 MODIFICATION KIT TO ADD POWER FACTOR CORRECTION
TO AUXILIARY REPERFORATOR IN CABINET (LAAC)



SPECIFICATION 5900S

FIGURE 7-19. 161302 MODIFICATION KIT TO ADD AUTOMATIC CHARACTER
FEED-OUT CIRCUIT TO AN ASR SET



*Part of 177015 Modification Kit

**Peculiar to 179560

#Peculiar to 178601 SPECIFICATION 500645

##Peculiar to 178149 Modification Kit

SPECIFICATION 500425

FIGURE 7-20. 177010 AND 178601 ELECTRONIC SELECTOR MAGNET DRIVE ASSEMBLIES
179560 ELECTRONIC SELECTOR MAGNET DRIVE ASSEMBLY AND OPEN LINE DETECTOR

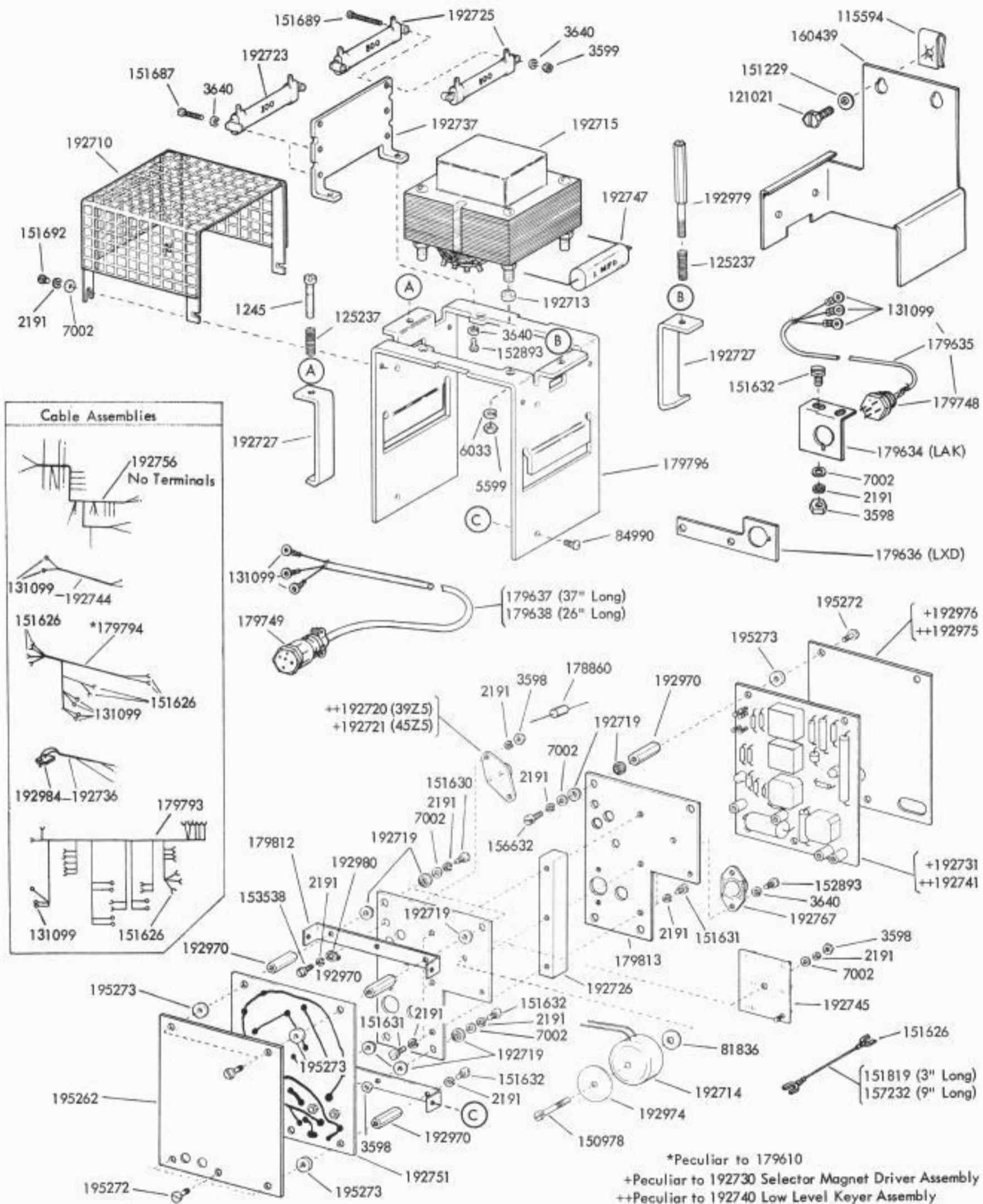


FIGURE 7-21. 179610 AND 179611 MODIFICATION KITS TO REDUCE RADIO FREQUENCY NOISE ON ASR SET

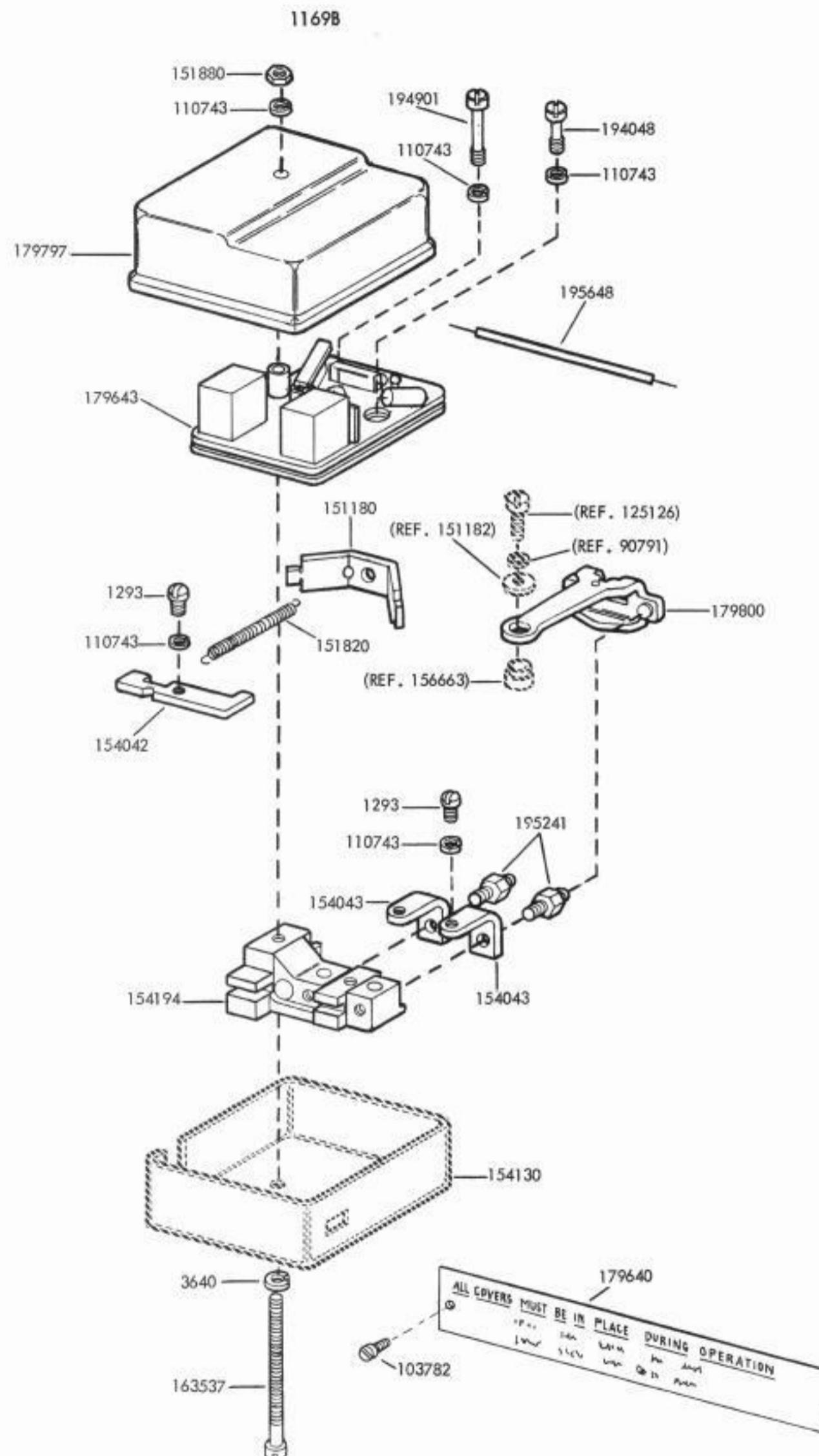
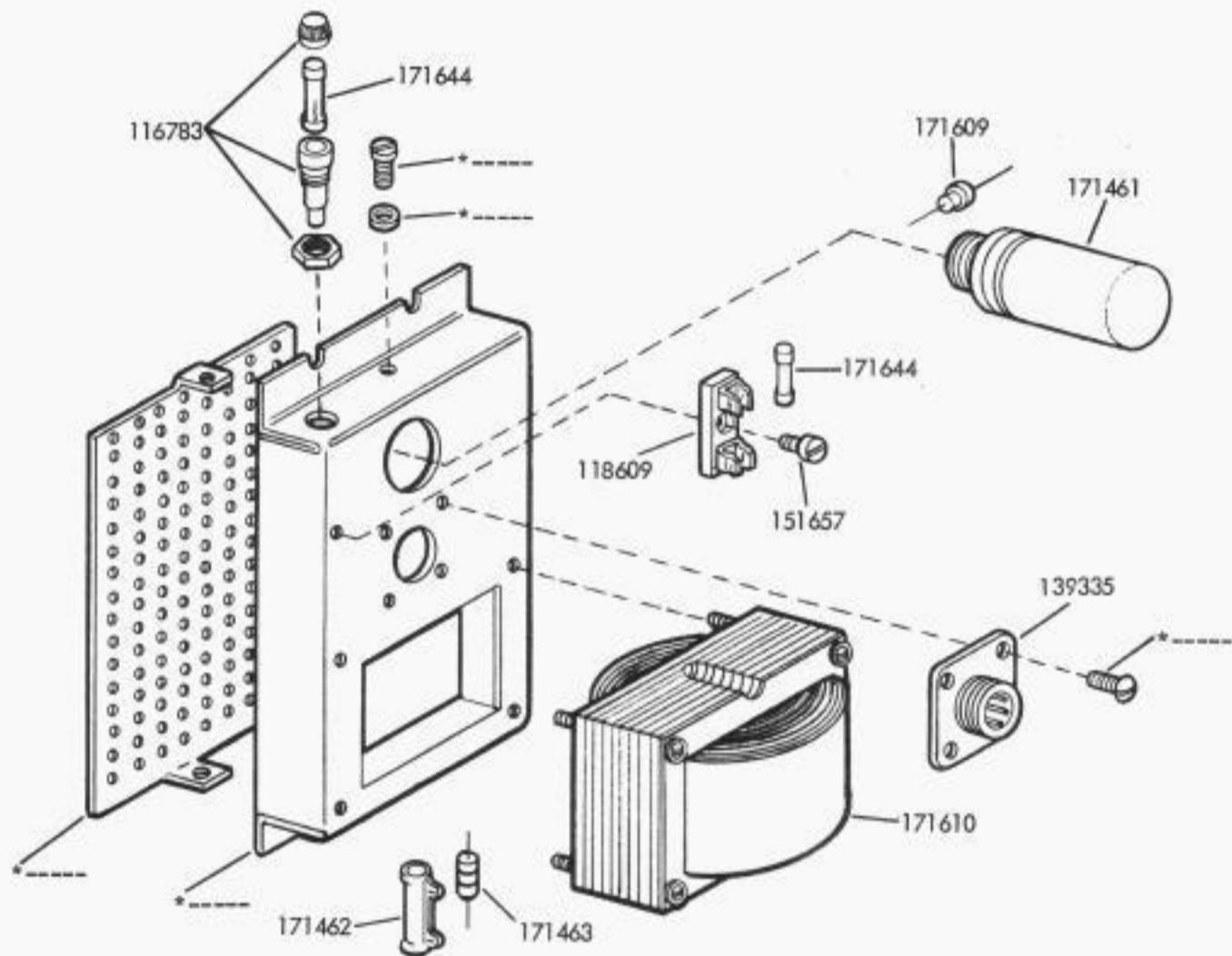
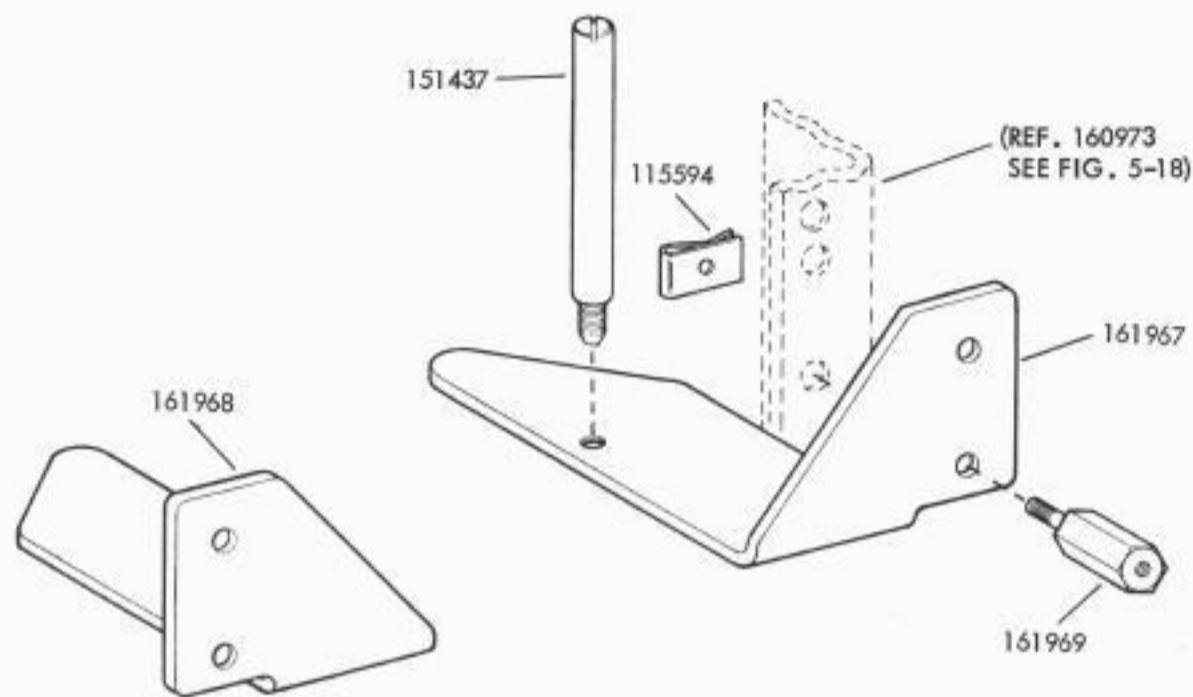
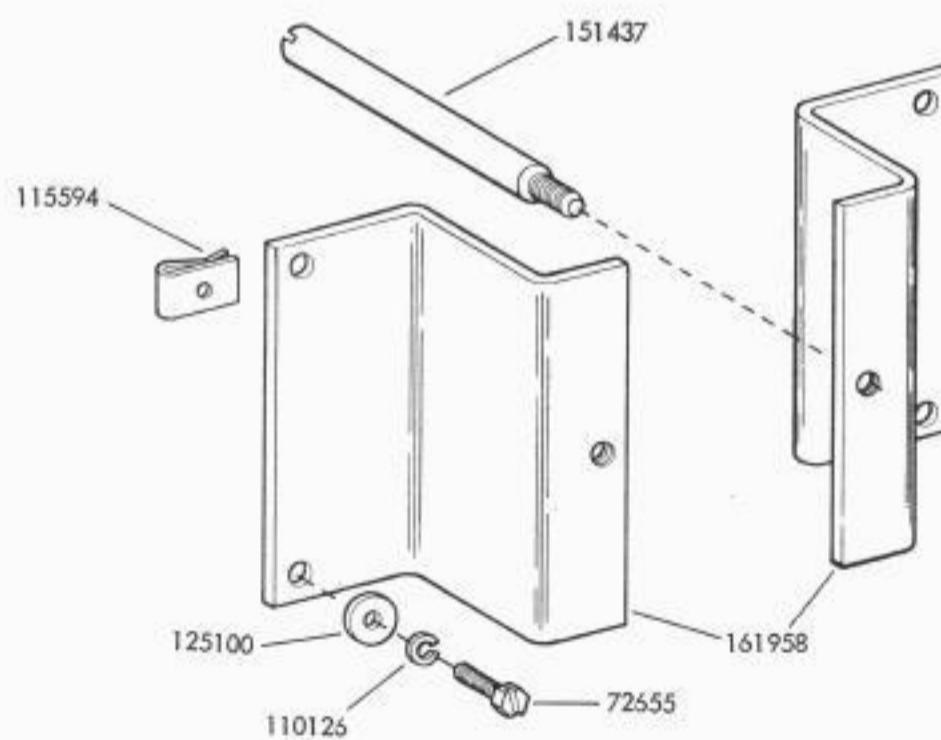


FIGURE 7-22. 179610 AND 179611 MODIFICATION KITS TO REDUCE RADIO FREQUENCY NOISE ON ASR SET (Continued)



*——Replacement Part Numbers Not Assigned

FIGURE 7-23. 170573 MODIFICATION KIT - 48 VOLT RECTIFIER ASSEMBLY

NEW STYLESPECIFICATION 5928SOLD STYLE

**FIGURE 7-24. 161829 MODIFICATION KIT FOR MOUNTING AN ELECTRICAL SERVICE UNIT
ON RELAY RACK BRACKETS**

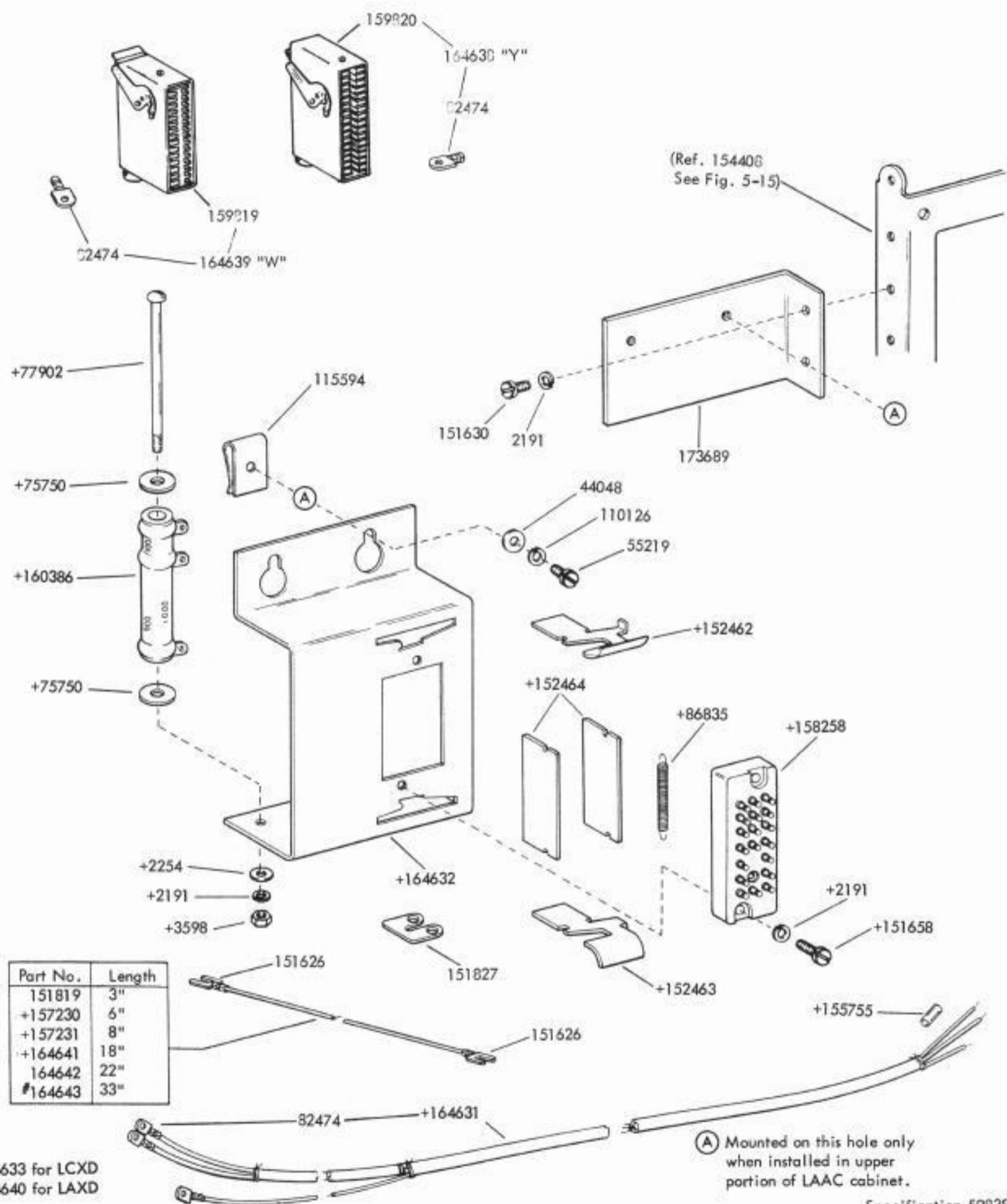


FIGURE 7-25. 164633 AND 164640 MODIFICATION KITS TO PERMIT LAXD3 AND LCXD1 TRANSMITTER DISTRIBUTORS TO OPERATE WITH LESU13 AND LESU15

Specification 59835

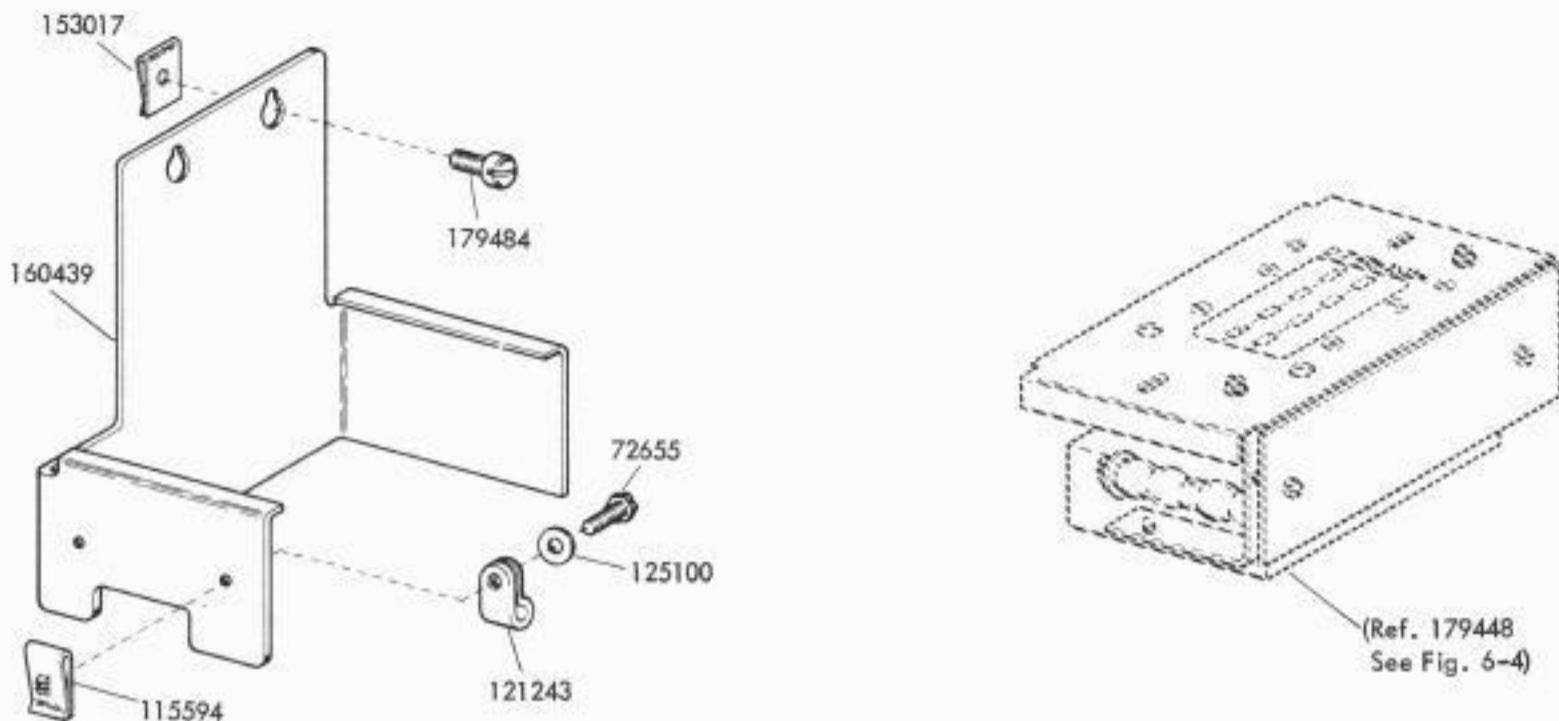


FIGURE 7-26. 179139 AUXILIARY REPERFORATOR LINE RELAY ASSEMBLY

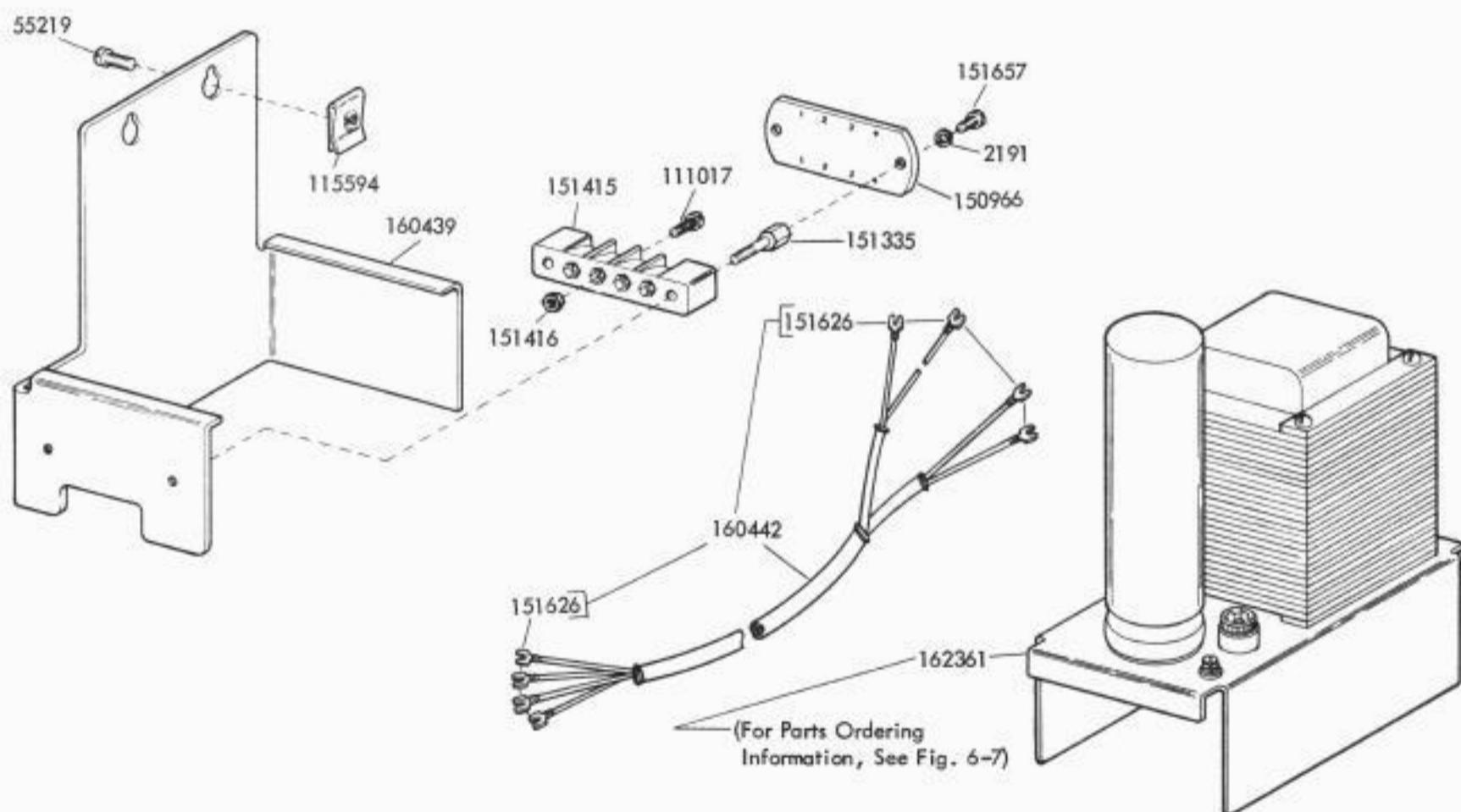


FIGURE 7-27. 160422 MODIFICATION KIT TO EQUIP LAAC CABINET WITH RECTIFIER

NUMERICAL INDEX - SECTION 7

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1157	Screw (8-32 x 1/2 Fil) 7-15	108959	Switch, Toggle 7-4	143304	Washer, Lock 7-15
1245	Screw (10-32 x 1 Fil) 7-22	110126	Washer, Lock 7-25,7-26	143306	Fuse (1 Amp) 7-15
1264	Screw (10-32 x 1/2 Flat) 7-15	110743	Washer, Lock 7-2,7-23	143307	Fuse (0.6 Amp) 7-15
1293	Screw (4-40 x 1/8 Fil) 7-23	111017	Screw (6-40 x 5/16 Fil) 7-2,7-20, 7-27	143308	Screw (10-24 x 5/8 Flat) 7-15
1301	Screw (6-32 x 3/8 Rd) 7-3	112626	Nut (10-32 Hex) 7-2	143309	Capacitor (2.75 Mfd) 7-15
2191	Washer, Lock 7-2 to 7-6,7-8,7-10, 7-12,7-16,7-17,7-20 to 7-22,7-26, 7-27	115594	Nut, Speed (8-32) 7-16,7-18 to 7-20,7-22,7-25,7-26,7-27	143310	Capacitor (1250 Mfd) 7-15
2254	Washer, Flat 7-26	116783	Holder, Fuse 7-2,7-24	143311	Connector (Black) 7-15
2449	Washer, Lock 7-16	117730	Resistor (10 Meg. Ohm) 7-10	143312	Connector (Red) 7-15
2669	Washer, Lock 7-2,7-4,7-6,7-8, 7-10,7-12,7-14,7-15	118154	Resistor (47,000 Ohm) 7-17	143313	Resistor (6000 Ohm) 7-15
3354	Nut (8-32 Hex) 7-7,7-13	118172	Resistor (2.2 Meg. Ohm) 7-10	143314	Bracket, Mounting 7-15
3438	Washer, Flat 7-2,7-4,7-6,7-8, 7-10,7-12,7-14,7-15	118206	Resistor (10,000 Ohm) 7-17	143315	Terminal, Insulated 7-15
3598	Nut (6-40 Hex) 7-2,7-5,7-16, 7-17,7-20,7-22,7-26	118511	Resistor (12,000 Ohm) 7-17	143317	Bracket, Mounting 7-15
3599	Nut (4-40 Hex) 7-17,7-22	118609	Fuse (1/8 Amp) 7-2	143319	Chassis 7-15
3639	Washer, Lock 7-15	118720	Holder, Fuse 7-24	143320	Cover 7-15
3640	Washer, Lock 7-11,7-17,7-18, 7-22,7-23	118723	Resistor (0.1 Meg. Ohm) 7-10	143321	Diode (320D) 7-15
3646	Washer, Lock 7-3,7-5,7-7,7-13, 7-16,7-19	120214	Resistor (1,000 Ohm) 7-17	143325	Regulator 7-15
5599	Nut (8-32 Hex) 7-22	121021	Resistor (220 Ohm) 7-8	143326	Bracket 7-15
5816	Washer, Insulating 7-6	121243	Screw (4-40 x 1-15/32 Fil) 7-2	144512	Fuse (1 Amp) 7-2
6033	Washer, Lock 7-22	121244	Clamp, Cable (3/16" ID) 7-2, 7-14,7-21,7-27	144518	Cable Assembly 7-2
6345	Nut (6-32 Hex) 7-21	121245	Clamp, Cable (1/4" ID) 7-20	144603	Cable Assembly (H) 7-12
7002	Washer, Flat 7-2,7-6,7-17,7-20 to 7-22	121246	Clamp, Cable (5/16" ID) 7-14	144604	Cable Assembly (Z) 7-12
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SECTION 8

KEYBOARD WITH PERFORATOR COVER (LBPC)

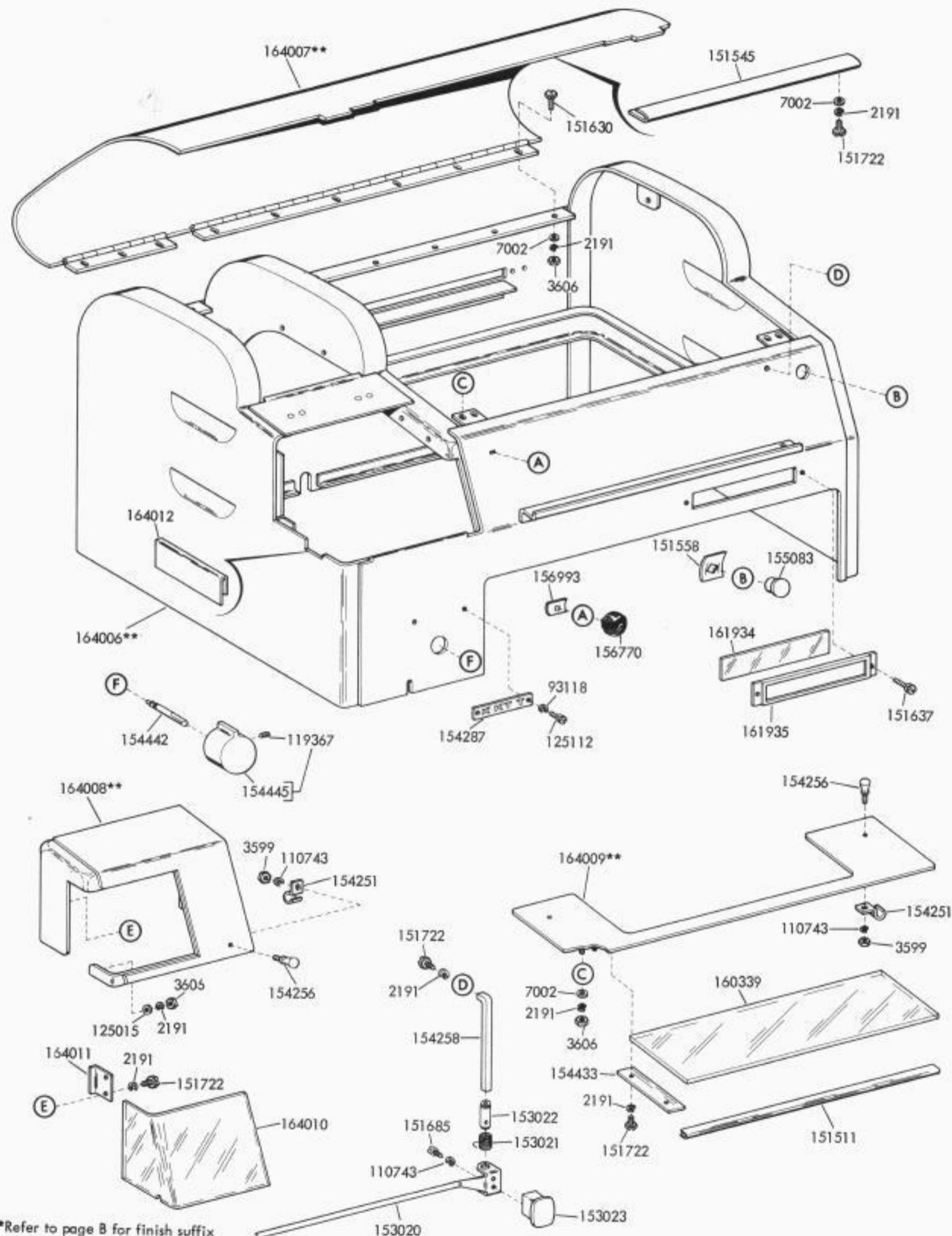
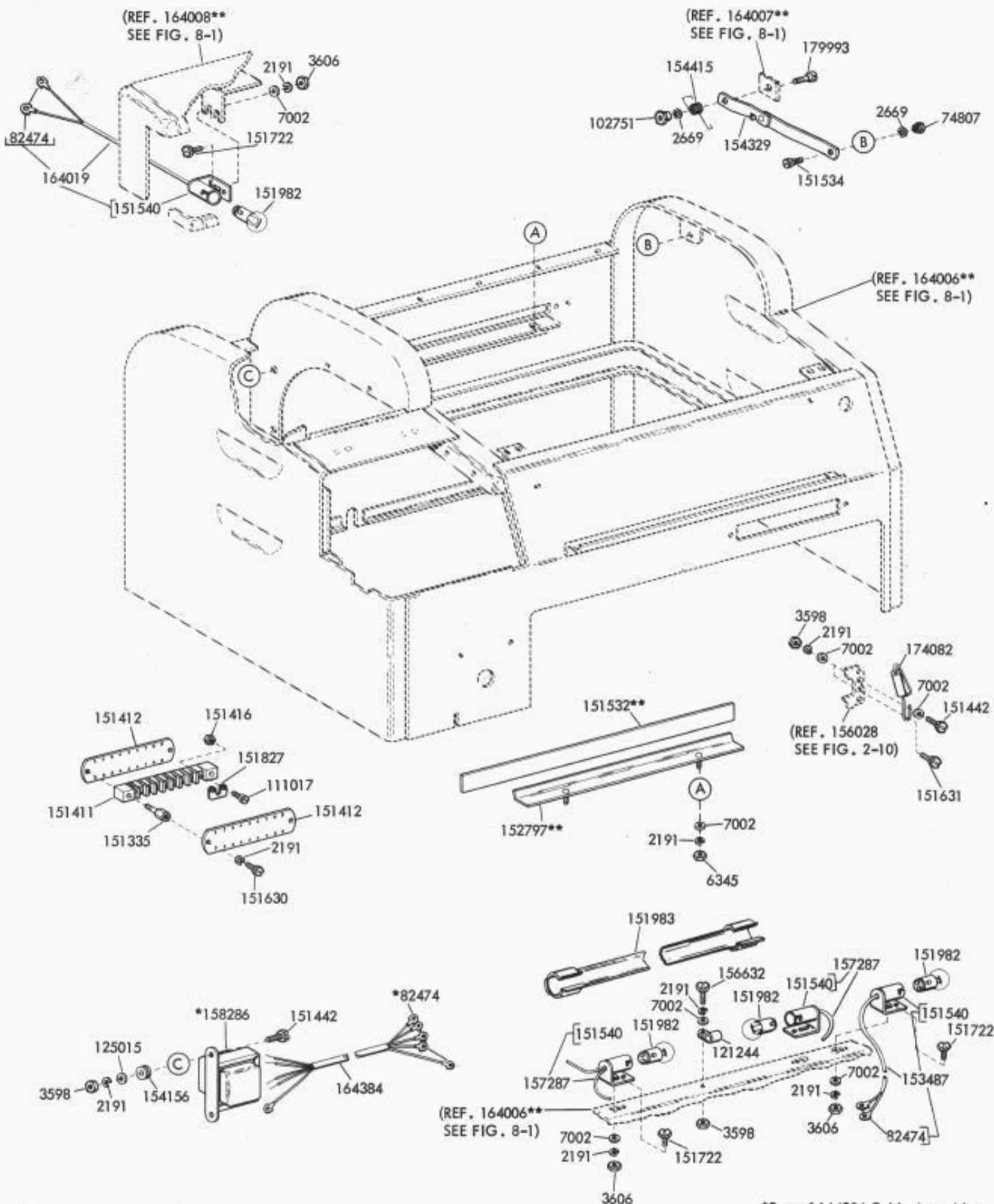
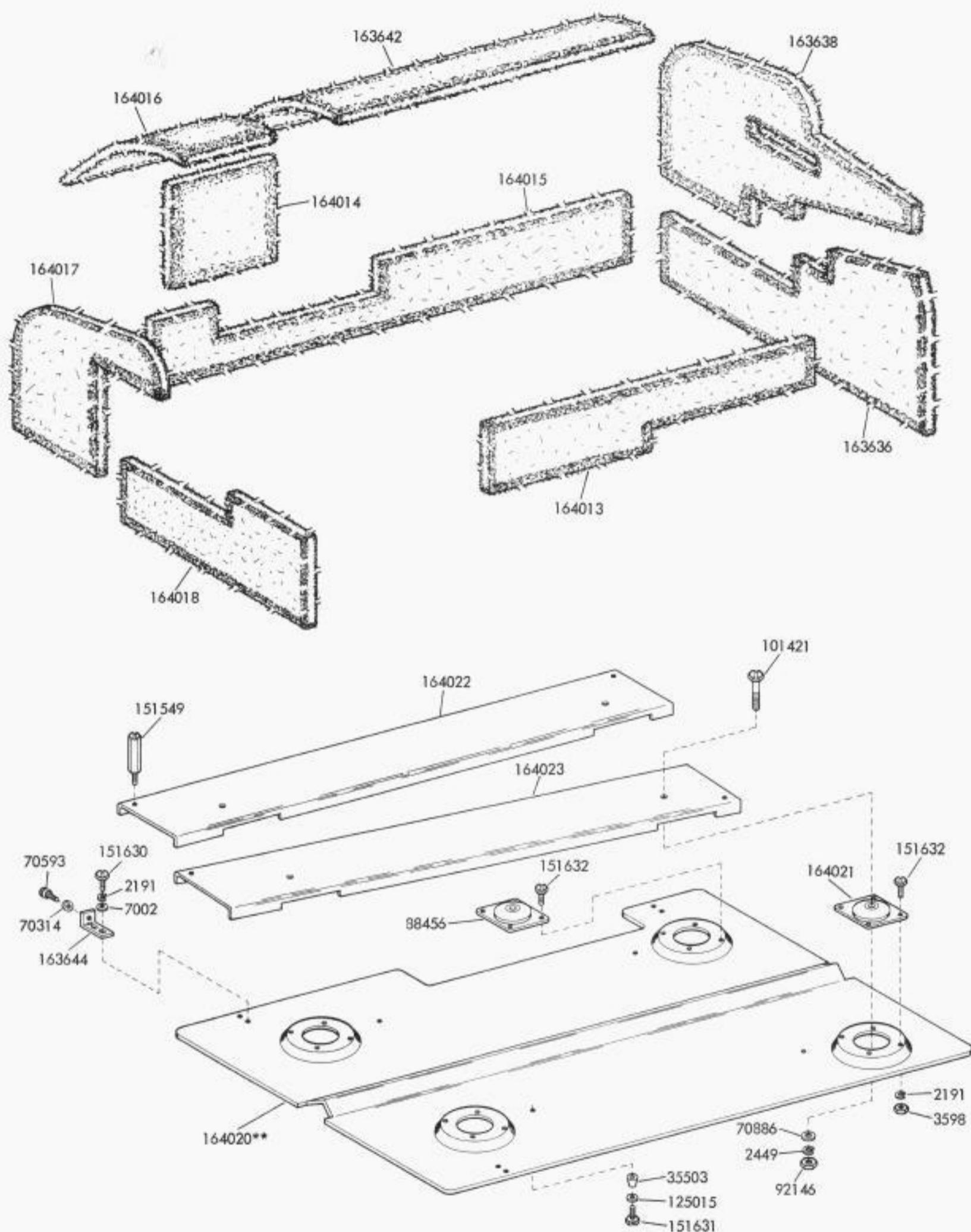


FIGURE 8-1. SKINTIGHT COVER FOR KEYBOARD WITH PERFORATOR (LBPC200**)



**Refer to page B for finish suffix

FIGURE 8-2. ELECTRICAL COMPONENTS AND CABINET ACCESSORIES (LBPC200**)



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FIGURE 8-3. FELT PADS AND BASE PLATE (LBPC200**)

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